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LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE, (U)
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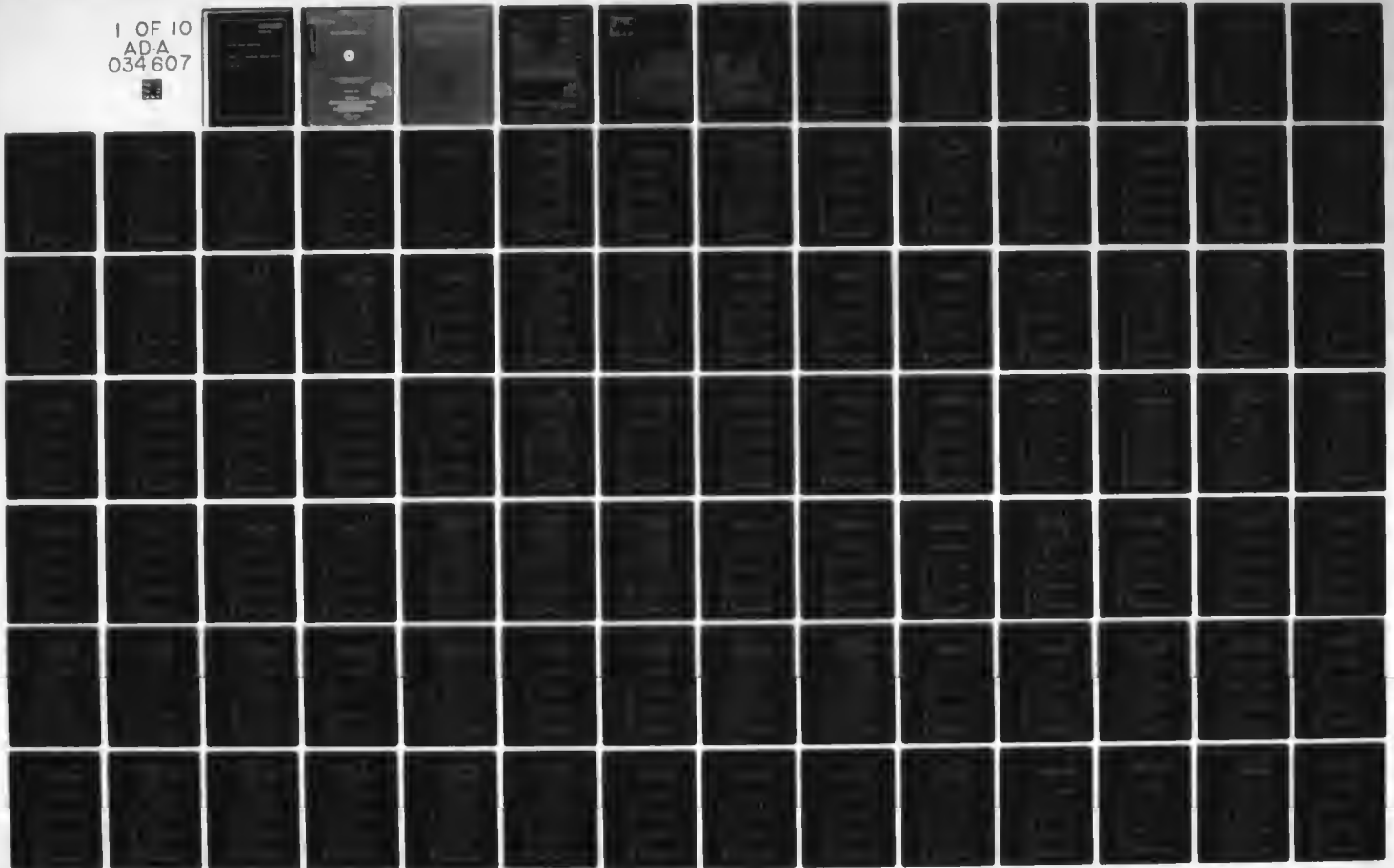
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USCG-D-124-76

DOT-CG-24655-A

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AD-A034 607

CHRIS/HACS CHEMICAL PROPERTY FILE

ARTHUR D. LITTLE, INCORPORATED, CAMBRIDGE, MASSACHUSETTS

DECEMBER 1976

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REPORT NO. CG-D-124-76

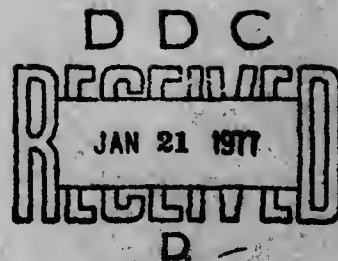
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CHRIS/HACS CHEMICAL PROPERTY FILE



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DECEMBER 1976



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Technical Report Documentation Page

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		6. Performing Organization Code	
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15. Supplementary Notes The U. S. Coast Office of Research and Development's technical representatives for the work performed herein were Drs. John M. Cece and Michael C. Parnarouskis.			
16. Abstract This report represents a listing of the Chemical Properties File which is an integral part of the Hazard Assessment Computer System (HACS). This file contains the physical and chemical properties of some 900 chemical substances; as many as 74 properties may be recorded for each chemical. The properties contained in the file may be either exact values from the chemical literature or estimated values obtained by the use of standard estimation techniques. An "(E)" following a value indicates it is an estimated values; all others are exact. The properties, their code names and their ordering on the file are given at the beginning of this report. All numeric data are listed in SI units. <div style="text-align: right; margin-right: 100px;"> D D C RECEIVED JAN 21 1977 RECEIVED D </div>			
17. Key Words Physical Properties, Chemical Properties, Hazardous Chemicals, Chemicals		18. Distribution Statement Document is available to the public through the National Technical Information Service, Springfield, Virginia 22161.	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 903	22. Price

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FIELDS SELECTED FOR RETRIEVAL AND DISPLAY ARE ...

FIELD NUMBER	NAME	SI	UNIT	DESCRIPTION
1	CHEMCODE	NA		CHEMICAL RECOGNITION CODE
2	CHEMNAME	NA		CHEMICAL OR COMPOUND NAME
3	PATHCODE	NA		HAZARD ASSESSMENT PATH CODES
4	MOLEWT	KG/KGM		MOLECULAR WEIGHT
5	NBP	K		NORMAL BOILING POINT
6	NFP	K		NORMAL FREEZING POINT
7	CRITTEMP	K		CRITICAL TEMPERATURE
8	CRITPRES	N/M2		CRITICAL PRESSURE
9	DENSITY	KG/M3		DENSITY (DATA POINT)
10	DENSTEMP	K		TEMPERATURE AT WHICH DENSITY IS GIVEN
11	SHPSSTATE	NA		PHYSICAL STATE OF COMPOUND AS SHIPPED
12	ARHO	KG/M3		CONSTANT IN SAT. LIQ. DENSITY EQUATION
13	BRHO	KG/M3K		COEFFICIENT OF T. SAT. LIQ. DENS. EON.
14	CRHO	KG/M3K2		COEFFICIENT OF T ² SAT. LIQ. DENS. EON.
15	LOUPRSD	K		UPPER TEMPERATURE BOUND. SAT. LIQ. DENS. EON.
16	LOLWRSD	K		LOWER TEMPERATURE BOUND. SAT. LIQ. DENS. EON.
17	LOVISPT	NS/M2		LIQUID VISCOSITY (DATA POINT)
18	LOVISTMP	K		TEMPERATURE AT WHICH LIQ. VISC. IS GIVEN
19	AVIS	*1(SI)		CONSTANT IN LIQUID VISCOSITY EQUATION
20	BVIS	K		COEFFICIENT OF T. LIQ. VISC. EON.
21	LVUPRSD	K		UPPER TEMPERATURE BOUND. LIQ. VISC. EON.
22	LVLWRSD	K		LOWER TEMPERATURE BOUND. LIQ. VISC. EON.
23	LOTHCOND	W/WK		LIQUID THERMAL CONDUCTIVITY (DATA POINT)
24	LTHCNTMP	K		TEMPERATURE AT WHICH LIQ. COND. IS GIVEN
25	ACON	W/WK		CONSTANT IN LIQ. THER. COND. EQUATION
26	BCON	W/WK2		COEFFICIENT OF T. LIQ. THER. COND. EON.
27	LTCUPSD	K		UPPER TEMPERATURE BOUND. LIQ. THER. COND. EON.
28	LTLCLSPD	K		LOWER TEMPERATURE BOUND. LIQ. THER. COND. EON.
29	LOHTCPT	J/KGK		LIQUID HEAT CAPACITY (DATA POINT)
30	LOHTCPTM	K		TEMPERATURE AT WHICH LIQ. CAP. IS GIVEN
31	AHC	J/KGK		CONSTANT IN LIQ. HEAT CAPACITY EQUATION
32	BHC	J/KGK2		COEFFICIENT OF T. LIQ. HEAT CAPACITY EON.
33	LHCUPSD	K		UPPER TEMPERATURE BOUND. LIQ. CAP. EON.
34	LHCLSPD	K		LOWER TEMPERATURE BOUND. LIQ. CAP. EON.
35	SURFTENS	N/M		LIQUID SURFACE TENSION (DATA POINT)
36	SFTNTMP	K		TEMPERATURE AT WHICH LIQ. SURF. TNS. GIVEN
37	INTFTENS	N/M		LIQUID-WATER INTERFACIAL TENSION (POINT)
38	INTFTTMP	K		TEMPERATURE AT WHICH INTERFAC. TNS. GIVEN
39	SOLUSFT	KG/HKC		SOLUBILITY IN WATER (DATA POINT)
40	SOLUBTMP	K		TEMPERATURE AT WHICH SOLUBILITY IS GIVEN

ACCESSION #	
0710	White Section <input checked="" type="checkbox"/>
000	Yellow Section <input type="checkbox"/>
0000000000	Green Section <input type="checkbox"/>
REMARKS	
BY	
DATE	
TIME	
A	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

41	A	KG/HKG	CONSTANT IN SOLUBILITY EQUATION
42	B	KG/HKGK	COEFFICIENT OF T. SOLUBILITY EQUATION
43	AVP	*2(SI)	CONSTANT AVP IN SAT. VAPOR PRESSURE EON.
44	BVP	K	CONSTANT BVP IN SAT. VAPOR PRESSURE EON.
45	CVP	K	CONSTANT CVP IN SAT. VAPOR PRESSURE EON.
46	VPUPRB:D	K	UPPER TEMPERATURE BOUND. SAT.VP.PRES.EON
47	VPLWRB:D	K	LOWER TEMPERATURE BOUND. SAT.VP.PRES.EON
48	AVCP	J/KGMK	CONSTANT IN VAPOR HEAT CAPACITY EQUATION
49	BVCP	J/KGMK2	COEFFICIENT OF T. VAPOR HEAT CAP. EON.
50	CVCP	J/KGMK3	COEFFICIENT OF T**2. VAPOR HEAT CAP. EON
51	DVCP	J/KGMK4	COEFFICIENT OF T**3. VAPOR HEAT CAP. EON
52	VHCUPB:D	K	UPPER TEMPERATURE BOUND. VPR.HT.CAP. EON
53	VHCLOB:D	K	LOWER TEMPERATURE BOUND. VPR.HT.CAP. EON
54	HTFUSION	J/KG	HEAT OF FUSION
55	LHTVAPOR	J/KG	LATENT HEAT OF VAPORIZATION
56	HTCOMSTN	J/KG	HEAT OF COMBUSTION
57	HTDECOMP	J/KG	HEAT OF DECOMPOSITION
58	HTSOLUTN	J/KG	HEAT OF SOLUTION
59	HTREACTN	J/KG	HEAT OF REACTION WITH WATER
60	HTPOLYCR	J/KG	HEAT OF POLYMERIZATION
61	LOFLMLIM	PERCENT	LOWER FLAMMABLE LIMIT IN AIR
62	UPFLMLIM	PERCENT	UPPER FLAMMABLE LIMIT IN AIR
63	BURNRATE	M/S	BURNING RATE
64	TOXINHAL	PPM	TOXICITY BY INHALATION (TLV)
65	INHALCIC	PPM	SHORT TERM INHALATION LIMIT (CONCENTR.)
66	INHALTME	S	SHORT TERM INHALATION LIMIT (TIME)
67	LOTOXLM	KG/KG	LOWER LIMIT. TOXICITY BY INGESTION
68	UPTOXLM	KG/KG	UPPER LIMIT. TOXICITY BY INGESTION
69	LATETOX	NA	LATE TOXICITY (DESCRIPTIVE VALUE)
70	ABFLMTRP	K	ADIASATIC FLAME TEMPERATURE
71	MOLRATIO	ND	MOLAR RATIO OF REACTANTS TO PRODUCTS
72	AIRFUEL	ND	STOICHIOMETRIC AIR TO FUEL RATIO
73	FLMTEMP	K	FLAME TEMPERATURE
74	MOLFRAC	ND	LIMITING VALUE. MOLECULAR FRACTION CONC.

OPTIONAL OUTPUT TO MAGNETIC TAPE HAS BEEN SELECTED

RETRIEVAL AND DISPLAY OPTIONS SELECTED FOR ...

ALL CHEMICALS
UP TO AND INCLUDING GSR

PROPERTY FILE OPENED HAS ID = 1552. VERSION NUMBER = 16. DATE CREATED = 112776

GENERATED FROM ID = 9093. VERSION NUMBER = 15. DATE CREATED = 112776

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

AAC  CHEMNAME = ACETIC ACID
MOLECWT = 60.05  NBP = 391.1  NFP = 290.0  CRITTEMP = 594.8  CRITPRES = 0.5780E+07
DENSITY = 1051.  OENSTEMP = 293.2  SHPSSTATE=L  ARHO = 1373.  BRHO = -1.103
CRHO = 0.5800E-05  LOUPREND = 373.2  LOLWRSNO = 273.2  LOVISFNT =  LOVISTMP =
AVIS =  BVIS =  LVUPREND =  LVLRPSNO =  LQTHRCND =
LTHCNTMP =  ACON =  BCON =  LTCUPEND =  LTCLOEND =
LOHTCPPT = 2035.  LOHTCPTM = 293.2  AHC = 918.7  BHC = 3.810  LHCUPEND = 433.2
LHCLOBND = 289.2  SURFTENS =  SFINTENS =  INTFTTMP =
SOLUBPNT =  SOLUBTMP =  A =  B =  AVP = 9.424
BVP = 1479.  CVP = -56.36  VPUPREND = 423.2  VPLWRBND = 290.2  AVCP = 4840.
BVCP = 254.8  CVCP = -0.1754  OVCP = 0.5024E-04  VHCUPBND = 600.0  VHCLOBND = 250.0
HTFUSION = 0.1955E+06  LHTVAPOR = 0.2374E+06  HTCOMBTN = -0.1313E+08  HTSOLUTN =
HTREACTN =  HTPOLYMR =  LOFLMLIM = 5.400  UPFLMLIM = 16.00  BURNRATE = 0.2667E-04
TOXINHAL = 10.00  INHALCNC = 40.00  INHALTWE = 300.0  LOTOXLIM = 0.5000E-03  UPTOXLIM = 0.5000E-02
LAFETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =
MOLFRAC =  FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

```

AAD  CHERNAME = ACETALOEHYDE          PATHCODE = A  B  C  K  L  M  N  Z
MOLECWT = 44.05  NBP = 293.6  NFP = 150.0  CRITTEMP= 461.0  CRITPRES= 0.5700E+07
DENSITY = 780.0  DENSTEMP= 293.2  SHPSTATE=L  BRHO = 1144.  BRHO = -1.240
CRHO = 0.0000E+00  LDUPRND= 373.2  LOLWRND= 243.2  LQVISRPT=  LQVISTMP=
AVIS = 8VIS =  LVUPRND=  LVLWRND=  LQTHRND=
LTHCNTMP=  ACON =  BCON =  LTCUPEND=  LTCLOEND=
LOHTCPPT= 1382.  LOHTCPTM= 293.2  AHC = 966.6  EHC = 1.382  LHCUPEND= 393.2
LHCL08ND= 193.2  SURFTENS=  SFTNTMP=  INTFIE.S=  INTFTTMP=
SOLUBTMP=  A =  B =  AVP = 9.923
BVP = 1444.  CVP = 0.4004E-01  VPUPRND= 333.2  VPLWRND= 253.2  AVCP = 0.1547E+05
BVCP = 144.4  CVCP = -0.4312E-01  OVCP = 0.0000E+00  VHCUPRND= 500.0  VHCLOEND= 250.0
HTFUSION=  LHTVAPOR= 0.5694E+06  HTCCVSTN= -0.2466E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  LHTPOLYMR=  LOFLMLIM= 4.000  UPFLMLIM= 60.00  BURNRATE= 0.5500E-04
TOXINHAL= 100.0  INHALCNC=  INHALTME=  LOTOXLIH= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO= 0.8750  (E) AIRFUEL = 7.800  (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

AAM  CHEMNAME = ACRYLAMIDE
      MOLEWT = 71.00      NBP = 692.0
      DENSITY = 1050.      DENSTEMP = 298.1
      CRHO = 0.0000E+00(E) LDUPREND = 298.1
      AVIS =              BVIS =
      LTHCNTMP =          ACON =
      LQHTCPPT = 3349.      (E) LQHTCPTM = 293.1
      LHCLOBND = 288.1      SURFTENS =
      SOLUBPNT = 216.0      SOLUBTMP = 293.1
      BVP =              CVP =
      BVCP =              CVCP =
      HTFUSION =          LHTVAPOR =
      HTREACTN =          HTPOLYMR =
      TOXINHAL = 0.9500E-01 INHALCNC =
      LATETOX =          ABFLNTMP =
      MOLFRAC =
      PATHCODE = A P Z
      CRITPRES =          CRITTEMP =
      (E) BRHO = 1343.      ZPHO =
      LQVISTNP =          LQVISTPT =
      LQTHRCND =          LVLWRBND =
      LTCLOBND =          LTCUPBND =
      LHCUPBND = 298.1      (E) BHC =
      INTFTIMP =          INTFTENS =
      AVP =              B =
      AVCP =              VPLWRBND =
      VHCLOBND =          VHCUPBND =
      HTSOLUTN =          HTDECORP =
      BURNRATE =          UPFLMLIN =
      UPTOXLIM = 0.5000E-04 LOTCXLIM =
      FLMETEMP =          AIRFUEL =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
AAN  CHEMNAME = N-AMYL ALCOHOL
      MOLEWT = 88.15      NBP = 411.1      NFP = 194.0      CRITTEMP= 586.0      CRITPRES=
      DENSITY = 818.0      DENSTEMP= 238.2      SHPSSTATE=L      ARHO = 1078.      BRHO = -0.9000
      CRHO = 0.0000E+00      LDUPRND= 323.2      LDWRBND= 273.2      LQVISPRT= 0.5200E-02      LQVISTMP= 293.2
      AVIS = -16.87      BVIS = 3406.      LVUPRND= 323.2      LVLWRBND= 283.2      LQTHRCND= 0.1547
      LTHCNTMP= 293.2      ACON = 0.1888      BCON = -0.1163E-03      LTCUPBND= 333.2      LTCLOBND= 263.2
      LQHTCPPI= 2177.      LQHTCPTM= 293.2      AHC = -506.4      BHC = 9.211      LHCUPBND= 353.2
      LHCLOBND= 263.2      SURFTENS= 0.2560E-01      SFTNTEMP= 293.2      INTFTENS= 0.5000E-02      INTFTIMP= 293.1
      SOLUBPNT= 2.600      SOLUBTMP= 298.7      A = 11.65      AVP = 11.65
      BVP = 2660.      CVP = 0.4004E-01      VPUPRND= 353.2      VPLWRBND= 263.0      AVCP = 0.5979E+05
      BVCP = 295.2      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 400.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.5049E+06      HTCOMBTN= -0.3768E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.100      UPFLMLIM= 7.500      BURNRATE= 0.6000E-04
      TOXINHAL=      INHALCNC= 150.0      INHALTWE= 1800.      LOTOXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
      MOLFRAC =

```

MOLEWT =	77.08	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	1170.	DENSTEMP=	293.1	SHPSTATE=S	=	ARHO	BRHO =
CRHO =		LDUPREND=		LDLWPREND=		LQVISPR.T=	LQVISTMP=
AVIS =		BVIS	=	LVUPREND=		LVLWPREND=	LQTHRCND=
LTHCNTMP=		ACON	=	BCON	=	LTCUPPR.D=	LTCLOBAND=
LQHTCPT=		LQHTCPTM=		AHC	=	BHC	LHCUPBAND=
LHCLOBND=		SURFTENS=		SFINTEMP=		INTFTERS=	INTFTTMP=
SOLUBPNT=	148.0	SOLUBTMP=	277.1	A	=	B	AVP =
BVP	=	CVP	=	VLUPREND=		VPLWPREND=	AVCP =
BVCP	=	CVCP	=	DVCP	=	VHCUPPR.D=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCONSTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIN=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=
LATECX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ABC  CHEMNAME = AMMONIUM BICARBONATE          PATHCODE = SS
MOLEWT = 79.06      NBP =                      CRITTEMP=
DENSITY = 1570.     DENSTEMP= 293.1           CRITPRES=
CRHO =             LDUPRBN=                   BRHO =
AVIS =             BVIS =                     LQVISTMP=
LTHCNTMP=          ACON =                     LQTHRCND=
LQHTCPPT=          LOHTCPTM=                  LTCLOBND=
LHCLOBND=          SURFTENS=                  LHCUPBND=
SOLUBPNT= 21.60    SOLUBTMP= 293.1           INTFTTMP=
BVP =              CVP =                      AVP =
BVCP =             CVCP =                    VPLWRBND=
HTFUSION=          LHTVAPOR=                  VHCUPBND=
HTREACTN=          HTPOLYMR=                  HTSOLUTN=
TOXINHAL=          INHALCNC=                  BURNRATE=
LAFETOX =          ABFLMTMP=                  UPTOXLIN=
MOLFRAC =          MOLRATIO=                  AIRFUEL =

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0.3300E+06

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ABF  CHEMNAME = AMMONIUM BIFLUORIDE          P4THCODE = SS
MOLEWT = 57.04      NBP = 512.7      NFP = 398.8      CRITTEMP=
DENSITY = 1500.     DENSTMP= 293.1    SHES ATTS=      BRNO =
GRHO =             LDURFEND=          LCLAWEND=      LOV:STMP=
AVIS =             BALS =             LVUP:END=      LOTHRCND=
LTHCNTTP=          BCON =             BCCN =          LVCLOBND=
LOHTCPTR=          LOHTCPTR=          LMC =          LMCUBGND=
LHCLGBND=          SURF:END=          SFTN:END=      INTFTIME=
SOLUBP,T= 58.30    SOLUBTMP= 293.1    A =          AVP =
BVP =             CVP =             VREF:END=      AVCP =
BVCP =            CVCP =             DUCP =          VHCLGBND=
HTFUSION=          LMTV:FOR=          HTCC:STN=      HTSOLUN=
HTREACTN=          HTFOLYMP=          LOFL:LIW=      BURRATE=
TOXINHAL= 0 9800   INHALCNC=          INHALTME=      UPTOXLYN=
LATETCX =          ABFL:TMP=          MCLRTIO=      FLWETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS


```

ABM  CHEMNAME = ACETYL BROMIDE          PATHCODE = A  0

MOLEWT = 122.9      NBP = 349.0      NFP = 176.7      CRITPRES=
DENSITY = 1660.     DENSTEMP= 289.1  SHPSIATE=L      BRHO = 1952.  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E) LDUPR8ND= 298.1  LDWR8ND= 273.1  LQVISPT=  LQVSTMP=
AVIS =             BVIS =             LVUPR8ND=  LVLWR8ND=  LOTHRCND= 0.1512  (E)
LTHCNTMP= 293.1     ACCN = 0.1512  (E) 8CON = 0.0000E+00(E) LTCUP8ND= 298.1  LTCLOBND= 283.1
LQHTCPPT= 2512.    (E) LQHTCPTM= 293.1  AHC = 2512.  (E) BHC = 0.0000E+00(E) LHCUP8ND= 298.1
LHCLOBND= 288.1     SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.545  (E)
BVP = 1585.    (E) CVP = -0.1500  (E) VPUPR8ND= 353.1  VPLWR8ND= 283.1  AVCP = 0.1830E+05(E)
BVCP = 196.5    (E) CVCP = -0.1231  (E) CVCP = 0.2952E-04(E) LHCUP8ND= 600.0  VHCLCBND= 250.0
HTFUSION=          LHTVAPOR= 0.2500E+06  HTCON3TN=          HTDECON=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLM=          UPFLWLM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLM=          UPTOXLIM=
LATETOX =          A8FLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =
  
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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ABR  CHEMNAME = ALLYL BROMIDE
      MOLEWT = 121.0      NBP = 343.0      NFP = 154.0      CRITTEMP=
      DENSITY = 1400.      DENSTEMP= 293.1      SHPSTATE=L      ARHC = 1693.      (E) BRHO = -1.000      (E)
      CRHO = 0.0000E+00(E) LOUPRBND= 303.1      LDLWRBND= 273.1      LVLWRBND= 273.1      LOVISTMP= 293.1
      AVIS = -11.61      (E) BVIS = 1320.      (E) LVUPRBND= 303.1      LVLWRBND= 273.1      LOTHRCND= 0.1512      (E)
      LTHCNTMP= 293.1      ACCN = 0.1512      (E) BCON = 0.0000E+00(E) LTCLOBND= 303.1      LTCLOBND= 273.1
      LQHTCPPT= 1424.      (E) LQHTCPTM= 293.1      AHC = 1424.      (E) BPC = 0.0000E+00(E) LHCUPBND= 303.1
      LHCLOBND= 273.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS= 0.4000E-01(E) INTFTTMP= 293.1
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.554      (E)
      BVP = 1560.      (E) CVP = 0.5000E-01(E) VPUPRBND= 333.1      VPLWRBND= 283.1      AVCP = 0.1424E+05(E)
      BVCP = 254.1      (E) CVCP = -0.1465      (E) DVCP = 0.3559E-04(E) VHCUPBND= 500.0      VHCLOBND= 300.0
      HTFUSION=          LHTVAPOR= 0.2500E+06(E) HTCOMSTN= -0.1500E+08(E) HTDECCMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM= 4.400      UPFLMLIM= 7.300      BURNRATE= 0.5845E-04
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

ABS	CHEMNAME = ALKYL BENZENESULFONIC ACIDS	PATHCODE = A P					
	MOLEWT = 352.0	(E) NBP =	NFP =	CRITTEMP=	CRITPRES=		
	DENSITY = 1200.	(E) DENSTEMP= 293.1	SHPSTATE=L	ARHO = 1281.	BRHO = -0.7000		
	CRHO = 0.0000E+00	LDPURBND= 313.1	LWLWPSND= 273.1	LOVISINT= 0.375D	LQVISTMP= 311.1		
	AVIS =	BVIS =	LVUPRBNDS=	LVLWRBND=	LOTIRCND=		
	LTHCNTIMP=	ACON =	BCON =	LTCUPBND=	LTLCLBND=		
	LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPEND=		
	LHCLGBND=	SURFTENS=	SFTNIEMP=	INTFTENS=	INTFTTMP=		
	SOLUBPNT=	SOLUBTMP=	A =	S =	AVP =		
	BVP =	CVP =	VPUPRSND=	VPLWRS'D=	AVCP =		
	BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLGBND=		
	HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOND=	HTSOLUTN=		
	HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=		
	TOXINHAL=	INHALLCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03	0.5000E-02	
	LAFETOX =	ABFLWMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=		
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

ABZ CHEMNAME = AMMONIUM BENZOATE

PATHCODE = SS

MOLEWT = 139.1	NBP =	NFP = 471.0	CRITTEMP=	CRITPRES=
DENSITY = 1260.	DENSTEMP= 298.1	SHESATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LOVISRND=	LOVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPB'D=	LTCLOEND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOB'D=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTIMP=
SOLUBPT= 22.90	SOLUBTMP= 298.1	A = -69.58	B = 0.3100	AVP =
BVP =	CVP =	VPUPRND=	VPLWRND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPB'D=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOM'GTN=	HTDECOMP=	HTSOLUTN= 0.8000E+05
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTWE=	LOTOXLIM=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ACA	CHEMNAME = ACETIC ANHYDRIDE	PATHCODE = A P Q	
MOLEWT =	102.1	NBP =	412.2
DENSITY =	1053.	OENSTEMP =	293.2
CRHO =	0.0000E+00	LOUPRNO =	373.2
AVIS =		BVIS =	
LTHCNTYP =		ACON =	
LOHTCPPT =	1825.	LOHTCPTM =	293.2
LHCLOBNO =	253.2	SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =	1400.	CVP =	-76.16
BVCP =	512.5	CVCP =	-0.3689
HTFUSION =		LHTVAPOR =	0.2772E+06
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	5.000
LAETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	199.1
		SHPSRATE=L	
		LOLWRBNO =	233.2
		LVUPRNO =	
		BCON =	
		AHC =	1250.
		SFTNTEMP =	
		A =	
		VPUPRNO =	433.2
		OVCP =	0.1061E-03
		HTCONSTN =	-0.1642E+08
		LOFLMLIM =	2.700
		INHALTME =	1200.
		MOLRATIO =	
		CRITPRES =	0.4680E+07
		BRHO =	-1.200
		LOVISTMP =	
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBNO =	373.2
		INTFTTMP =	
		AVP =	9.173
		AVCP =	-0.2335E+05
		VHCLOBNO =	250.0
		HTSOLUTN =	
		BURNRATE =	0.5500E-04
		UPTOXLIM =	0.5000E-02
		FLMETEMP =	
		CRITTEMP =	569.0
		ARHO =	1434.
		LOVISPNT =	
		LVLWRBNO =	
		LTCUPBND =	
		BHC =	1.968
		INTFTENS =	
		B =	
		VPLWRBND =	293.2
		VHCUPBND =	600.0
		HTOECOMP =	
		UPFLMLIM =	10.30
		LOTOXLIM =	0.5000E-03
		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ACB CHEMNAME = AMMONIUM CARBONATE PATHCODE = SS

MOLECWT = 157.1	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1500.	DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTIS =	INTFTTMP =
SOLUBPNT = 102.0	SOLUBTMP = 288.1	A =	B =	AVP =
BVP =	CVP =	VPUPRND =	VPLWRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLDBND =
HTFUSION =	LHTVAPOR =	HTCOYSTN =	HTDECCP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

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*****
ACC  CHEMNAME = ACETYL CHLORIDE          PATHCODE = A  0
MOLEWT = 78.50      NBP = 324.0      NFP = 161.0
DENSITY = 1104.      OENSTEMP = 294.1  SHPSSTATE=L
CRHO = 0.0000E+00    LDUPREND = 273.1  LDLWRBND = 273.1
AVIS = -10.87        BVIS = 924.0      LVUPREND = 353.1
LTHCNTMP = 293.1     ACON = 0.2015     BCON = -0.1628E-03
LOHTCPPT = 1465.     LOHTCPTM = 293.1  AHC = 1159.
LHCLOBND = 273.1     SURFTENS = 0.2600E-01 SFTN*EMP = 293.1
SOLUBPNT =          SOLUBTMP =          A =
BVP = 1576.          CVP = 0.5000E-01  VPUPREND = 373.1
BVCP = 106.8         CVCP = 0.0000E+00  OVCP = 0.0000E+00
HTFUSION =           LHTVAPOR = 0.3700E+06 HTCOYSTN = -0.1400E+08
HTREACTN =           HTPOLYMR =          LOFLMLIM =
TOXINHAL =           INHALCNC =          INHALTIME =
LATETOX =           ABFLWTMP =          MOLRATIO =
MOLFRAC =           MOLTFRAC =
CRITPRES = 519.0     (E) CRITPRES = 0.5830E+07(E
ARHO = 2113.         BRHO = -3.600
LOVISPT = 0.4400E-03  LOVISTMP = 293.1
LVLWRBND = 273.1     LOTHRCND = 0.1535
LTCUPBND = 353.1     LTCLOBND = 273.1
BHC = 1.047          LHCUPBND = 373.1
INTFTENS =           INTFTTMP =
B =                  AVP = 9.841
VPLWRBND = 273.1     AVCP = 0.3370E+05
VHCUPBND = 500.0     VHCLOBND = 300.0
HTDECCVP =           HTSOLUTN = -0.1300E+06(E
UPFLMLIM =           BURNRATE = 0.4342E-04
LOTOXLIM = 0.5000E-03  UPTOXLIM = 0.5000E-02
AIRFUEL =           FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ACD	CHEMNAME = ACRIDINE	PATHCODE = II	
MOLEWT =	179.1	NBP =	619.0
DENSITY =	1200. (E)	DENSTEMP =	293.1
CRHO =		LDUPREND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		HTCOMSTN =	-0.3680E+08
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	383.0
		ARHO =	
		LOVISPT.7 =	
		LVLWRBND =	
		LTCUPBND =	
		ELC =	
		INTFTMP =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-03
		FLMETEMP =	0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ACE      CHEMNAME = ACETYLENE      PATHCODE = A   B   C
MOLEWT = 26.04      NBP = 189.2      NFP =      CRITTEMP= 308.4      CRITPRES= 0.6138E+07
DENSITY = 613.0      DENSTEMP= 193.2      SHPSTATE=L      ARHO = 942.4      BRHO = -1.700
CRHO = 0.0000E+00      LDUPREND= 273.2      LDLWRBND= 193.2      LQVISPNT=      LOVISTMP=
AVIS =      BVIS =      LVUPR3ND=      LVLWRBND=      LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPPT=      LOHTCPTM=      AHC =      BHC =      LHCUP8ND=
LHCLOBND=      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.220
BVP = 709.1      CVP = -19.96      VPUPREND= 213.2      VPLWRBND= 192.2      AVCP = 0.1583E+05
BVCP = 128.1      CVCP = -0.1277      DVCP = 0.5024E-04      VHCUP8ND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR=      HTCDW3TN= -0.4826E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.500      UPFLMLIM= 100.0      BURNRATE=
TOXINHAL= 5000.      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LAFETOX =      ABFLMTMP= 2907.      (E) MOLRATIO= 1.167      (E) AIRFUEL = 13.18      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ACF  CHEMNAME = ALLYL CHLOROFORMATE      PATHCODE = A  O  X  Y
MOLEWT = 120.5      NBP = 318.0      CRITTEMP = 193.0      CRITPRES =
DENSITY = 1139.      OENSTEMP = 293.1      SHPSTATE=L      ARHO = 1433.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRBN0 = 303.1      LOLW2BN0 = 273.1      LOVISPAT = 0.7100E-03      LOVISTMP = 293.1
AVIS = -11.62      (E) BVIS = 1280.      (E) LVUPRBN0 = 303.1      LVLWPRBN0 = 273.1      LQTHRCNO = 0.1512      (E)
LTHCNTMP = 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBN0 = 303.1      LTCLOBN0 = 273.1
LQHTCPPT = 1884.      (E) LQHTCPTM = 293.1      AHC = 1884.      (E) BHC = 0.0000E+00(E)      LHCUPBN0 = 303.1
LHCLOBN0 = 273.1      SURFTENS = 0.2500E-01(E)      SFTNTIMP = 293.1      INTFTENS = 0.0000E+00(E)      INTFTIMP =
SOLUBPT = 273.1      SOLUBTMP = 293.1      A = 293.1      B = 293.1      AVP = 9.645      (E)
BVP = 1475.      (E) CVP = -0.1500      (E) VPUPRBN0 = 323.1      VPLWRBN0 = 288.1      AVCP = 0.2709E+05(E)
BVCP = 329.9      (E) CVCP = -0.1637      (E) OVCP = 0.7829E-04(E)      VHCUPBN0 = 500.0      VHCLOBN0 = 300.0
HTFUSION = 0.2300E+06(E)      HTCO3BTN = -0.1800E+08(E)      HTOECOMP = 0.8183E-04
HTREACTN = 0.2300E+06(E)      LOPFLMLIM = 0.8183E-04      BURNRATE = 0.8183E-04
TOXINHAL = 0.2300E+06(E)      INHALCNC = 0.2300E+06(E)      LOTOXLIM = 0.5000E-04      UPTOXLIM = 0.5000E-03
LAFETOX = 0.2300E+06(E)      ABFLNTMP = 0.2300E+06(E)      MOLRATIO = 0.2300E+06(E)      FLMETEMP =
MOLFRAC = 0.2300E+06(E)

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ACI    CHEMNAME = AMMONIUM CITRATE          PATHCODE = SS
MOLECW = 226.0      NBP      =
DENSITY = 1480.     DENSTEMP = 293.1      SHPSRATE=S
CRHO    =           LDUPRBN =             LDLWRBN =
AVIS    =           BVIS    =             LVLWRBN =
LTHCNTMP =          ACON    =             LTCUPBN =
LQHTCPPT =          LQHTCPTM =          BHC      =
LHCLOBND =          SURFTENS =          INTFTENS =
SOLUBPNT = 100.0    SOLUBTMP = 298.1      A        =
BVP      =          CVP      =          VPUPRBN =
BVCP     =          CVCP     =          VHCUPBN =
HTFUSION =          LHTVAPOR =          HTDECDWP =
HTREACTN =          HTPOLYMR =          UPFLMLIM =
TOXINHAL =          INHALCNC =          LOTOXLIM =
LATETOX  =          ABFLMTMP =          AIRFUEL  =
MOLFRAC  =
CRITPRES =
BRHO     =
LQVISTMP =
LQTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP       =
AVCP      =
VHCLOBND =
HTSOLUTN =
BURNRATE =
UPTOXLIM =
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ACL  CHEMNAME = ALUMINUM CHLORIDE          PATHCODE = RR  C
MOLEWT = 133.3      NBP =
DENSITY = 2440.     DENSTEMP= 298.2
CRHO =
AVIS =
LTHCNTMP=
LHCLOBND=
SOLUBPNT=
BVP =
BVCP =
HTFUSIGN= 0.3014E+06
HTREACTN= -0.4145E+06
TOXINHAL= 5.000
LATETOX =
MOLFRAC =

LDUPREND=
BVIS =
ACON =
LOHTCPTM=
SURFTENS=
SOLUBTMP=
CVP =
CVCP =
LHTVAPOR=
HTPOLYMR=
INHALCNC= 5.000
ABFLMTMP=

NFP =
SHPSTATE=S
LDLWPSND=
LVUPRSND=
BCON =
AHC =
SFTNTEMP=
A =
VPUPRSND=
DVCP =
HTCORSTN=
LOFLMLIM=
INHALTIME= 300.0
MOLRATIO=

CRITTEMP=
ARHO =
LOVISPRIT=
LVLWRSND=
LTCUPBSND=
BHC =
INTFTEAS=
B =
VPLWRSND=
VHCUPBSND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =

CRITPRES=
BRHO =
LOVISSTMP=
LOTHRCND=
LTCLOEND=
LHCUPEND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ACN  CHEMNAME = ACRYLONITRILE
      MOLEWT = 53.06      NBP = 350.6      PATHCODE = A P Q R S Z
      DENSITY = 807.5      DENSTEMP = 293.2      SHPSIATE=L      CRITTEMP = 536.0      CRITPRES = 0.4600E+07
      CRHO = 0.0000E+00      LDUPRBND = 333.2      LDLPBND = 253.2      LOVISPAI = 1101.      BRHO = -1.0000
      AVIS =      BVIS =      LVUPRBND =      LVLWRBND =      LOVISTMP =      LQVISTMP =
      LTHCNTMP =      ACON =      BCON =      LTCUPBND =      LTCLOBND =      LQVISTMP =
      LQHTCPPT = 2000.      (E) LOHTCPTM = 293.0      (E) AHC = 2000.      (E) BHC =      INTFTMP =      AVP = 9.041
      LHCLOBND = 270.0      (E) SURFTENS =      SFTNTEMP =      INTFTENS =      VPLWRBND = 253.2      AVCP = 0.1068E+05
      SOLUBPNT = 8.000      SOLUBTMP = 294.3      A =      B =      VHCLOBND = 600.0      HTSOLUTN =
      BVP = 1208.      CVP = -51.16      VPUPRBND = 383.2      DVCVP = 0.4605E-04      HTDECOMP =      BURNRATE =
      BVCP = 221.9      CVCP = -0.1549      HTCOBNTN =      LOFLMLIM = 3.050      UPTOXLIM = 0.5000E-03
      HTFUSION =      LHTVAPOR = 0.6155E+06      HTPOLYMR =      INHALTME = 1800.      FLMETEMP =
      HTREACTN =      INHALCNC = 40.00      ABFLMTMP =      MOLRATIO =
      TOXINHAL = 20.00      ABFLMTMP =
      LAETOX =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ACP CHEMNAME = ACETOPHENONE

PATHCODE = A T U X Y

MOLEWT = 120.2	NBP = 474.9	NFP = 292.9	CRITTEVP = 701.0	CRITPRES = 0.3800E+07
DENSITY = 1028.	DENSTEMP = 293.2	SHPSATE=L	ARHO = 1273.	BRHO = -0.9000
CRHO = 0.0000E+00	LOUPRBN = 373.2	LOLWRBN = 293.2	LQVISPNT = 0.1990E-02	LOVISTMP = 289.2
AVIS = -10.71	BVIS = 1299.	LVUPRBN = 303.2	LVLWRB:D = 283.2	LOTHRCND =
LTHCNTMP =	ACON =	8CON =	LTCUPB:D =	LTCLOBND =
LQHTCPT = 1985.	LQHTCPTM = 293.2	AHC = 1985.	BHC =	LHCUPBND = 303.2
LHCLOBND = 283.2	SURFTENS = 0.3980E-01	SFTNTMP = 293.2	INTFTENS =	INTFTTMP = 300.0 (E)
SOLUBPNT = 0.5500	SOLUBTMP = 293.2	A =	B =	AVP = 9.282
BVP = 1723.	CVP = -72.16	VPUPRBN = 518.2	VPLWRB:D =	AVCP = -0.2957E+05(E)
BVCP = 640.0 (E)	CVCP = -C.4070 (E)	OVCP = 0.9700E-04(E)	VHCUPB:D =	VHCLOBND = 270.0 (E)
HTFUSION =	LHTVAPOR = 0.3650E+06(E)	HTCONGTN = -0.3454E+08	HTOECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	LPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIV = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ACR  CHEMNAME = ACRYLIC ACIO
      MOLEWT = 72.06      NBP = 414.5      NFP = 285.5      CRITTEMP = 615.0      CRITPRES = 0.5800E+07
      DENSITY = 1050.      OENSTEMP = 293.2      SHPSTATE=L      ARHO = 1371.      BRHO = -1.100
      CRHO = 0.0000E+00      LDUPREND = 333.2      LDLWSEND = 285.2      LQVISINT = LQVISIMP =
      AVIS =      BVIS =      LVUPRSNO =      LVLWRBND = LQTHRCND =
      LTHCNTMP =      ACON =      BCON =      LTCUPBND = LTCLOBND =
      LQHTCPPT = 1926.      LOHTCPTM = 323.2      AHC = 1926.      BHC = 0.0000E+00      LHCUPBND = 333.2
      LHCLOBND = 313.2      SURFTENS =      SFTNTMP =      INTFTIMP =
      SOLUBPNT =      SOLUBTMP =      A =      B =      AVP = 10.47
      BVP = 2270.      CVP = 0.4004E-01      VPUPRSNO = 343.2      VPLWRBND = 288.2      AVCP = 1742.
      BVCP = 319.0      CVCP = -0.2353      OVCP = 0.6992E-04      VHCUPBND = 600.0      VHCLOBND = 250.0
      HTFUSION =      LHTVAPOR = 0.6343E+06      HTCONSTN = -0.1884E+08      HTSOLUTN =
      PTRACTN =      HTPOLYMR = -0.1076E+07      LOFLMLIM = 2.400      UPFLMLIM =
      TOXINHAL =      INHALCNC =      INHALIME =      LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
      LATETOX =      ABFLMTMP =      MOLRATIO =      FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ACT    CHEMNAME = ACETONE
      PATHCODE = A P O R S
      MOLEFCWT = 58.08      NBP = 329.3      CRITTEMP= 508.0      CRITPRES= 0.4700E+07
      DENSITY = 791.0      DENSTEMP= 293.2      SHSTATE=L      ARHO = 1089.      BRHO = -0.9306
      CRHO = -0.3100E-03      LDUPREND= 323.2      LDWREND= 183.2      LOVISINT=      LOVISTMP=
      AVIS =      BVIS =      LVUPREND=      LVWREND=      LQTHRCND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=      LTCLOBND=
      LOHTCPPT= 2181.      LOHTCPTM= 293.2      AHC = 1249.      BHC = 3.182      LHCUPEND= 303.2
      LHCLOBND= 273.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
      SOLUBPAT=      A =      B =      AVP = 9.365
      BVP = 1280.      CVP = -35.66      VPUPREND= 363.2      VPLWREND= 243.2      AVCP = 0.1398E+05
      BVCP = 226.5      CVCP = -0.7452E-01      DVCP = -0.2106E-05      VHCUPBND= 600.0      VHCLOBNO= 250.0
      HTFUSION= 0.9839E+05      LHTVAFOR= D.5109E+D6      HTCOMBTN= -0.2850E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLNLIM= 2.600      UPFLMLIM= 12.80      BURNRATE= 0.6500E-04
      TOXINHAL= 1000.      INHALCNC= 1000.      INHALTME= 1800.      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ACY  CHEMNAME = ACETONE CYANOHYDROIN      PATHCODE = A P O
MOLEWT = 85.11      NEP = 252.0      CRITTEMP=
DENSITY = 925.0      DENSTEMP= 298.2      SHPSTATE=L      ARHO = 1223.      CRITPRES=
CRHO = 0.0000E+00      LOUPRBND= 308.2      LDLRBND= 288.2      LOVISPT=      LOVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPPT= 2900.      (E) LOHTCPTM= 300.0      (E) AHC = 2900.      (E) EHC = 0.0000E+00(E) LHCUPBND= 300.0      (E)
LHCLOBND= 270.0      (E) SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.96      (E)
BVP = 2743.      (E) CVP = 0.0000E+00(E) VPUPRBND= 300.0      (E) VPLWRBND= 270.0      (E) AVCP = 0.2684E+05(E)
BVCP = 383.0      (E) CVCP = -0.2190      (E) DVCP = 0.3970E-04(E) VHCUPBND= 400.0      (E) VHCLOBND= 270.0      (E)
HTFUSION=      LHTVAPOR= 0.6172E+06(E) HTCOWBTN= -0.2760E+08(E) HTOECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.200      UPFLMLIM= 12.00      BURNRATE= 0.5833E-03
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM= 0.5000E-04      UPTOXLM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ADA CHEMNAME = ADIPIC ACID PATHCODE = SS II

MOLECWT = 146.1	NBP =	NFP = 424.0	CRITTEMP=	CRITPRES=
DENSITY = 1360.	DENSTEMP= 293.1	SHPSRATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPRSND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCCN =	LTCUPBND=	LTCLOSND=
LOHTCPPT=	LOHTCPTM=	AHC =	LHCUPBND=	LHCLOSND=
LHCLOBNO=	SURFTENS=	SFINTEMP=	INTFTEMP=	INTFTEMP=
SOLUBPNT= 1.500	SOLUBTMP= 288.1	A = -27.32	B = 0.1DDO	AVP = 12.24
BVP = 4368.	CVP = -0.150D	VPUPRBND= 543.1	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBNO=
HTFUSION=	LHTVAPOR=	HTCOYSTN= -0.1916E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALIME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ADN CHEMNAME = ADIPONITRILE

PATHCODE = A T U

MOLEWT = 108.0	NBP = 563.0	NFP = 275.5	CRITTEMP =	CRITPRES =	
DENSITY = 950.0	OENSTEMP = 288.2	SHPSTATE=L	ARHO = 950.0	BRHO =	0.000CE+00
CRHO = 0.0000E+00	LOUPREND = 293.2	LDLAPEND = 283.2	LOVISPT = 0.3000E-02(E)	LOVISTMP =	300.0 (E)
AVIS = -11.17 (E)	BVIS = 1614. (E)	LVUPPSND = 300.0 (E)	LVLWRBC = 280.0 (E)	LOTHRCND =	0.1400 (E)
LTHCNTMP = 300.0 (E)	ACON = 0.1400 (E)	BCON = 0.0000E+00(E)	LTCUPBND = 300.0 (E)	LTCLOBND =	280.0 (E)
LQHTCPPT = 2050. (E)	LQHTCPTM = 290.0 (E)	AHC = 2050. (E)	BHC = 0.0000E+00(E)	LHCUPBND =	300.0 (E)
LHCLOBND = 280.0 (E)	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =	
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	
BVP =	CVP =	VPUPPSND =	VPLWRBC =	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR = 0.5590E+06(E)	HTCOM'GTN = -0.3320E+08(E)	HTDECOVP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	
TOXINHAL = 50.00	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	
LAFETOX =	ABFLNTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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AEA  CHEMNAME = AMINOETHYLETHANOLAMINE      PATHCODE = A P O
MOLEWT = 104.2      NBP = 516.0      NFP =      CRITTEMP=
DENSITY = 1028.      DENSTEMP= 298.2      SHPSTATE=L      ARHO = 1050.      CRITPRES=
CRHO = 0.0000E+00      LOUPRBND= 303.2      LDLWRBND= 288.2      LOVISPT=      LOVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LOTHRCOND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPT= 2700.      (E) LOHTCPTM= 290.0      (E) AHC = 2700.      (E) SHC =      LHCUPEND= 300.0      (E)
LHCLBND= 270.0      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.42
BVP = 3310.      CVP = 0.4004E-01      VPUPRBND= 473.2      VPLWRBND=      AVCP = 0.461CE+05(E)
BVCP = 475.0      (E) CVCP = -0.2200      (E) DVCP = 0.0000E+00(E)      VHCUPBND= 400.0      (E) VHCLEAD= 250.0      (E)
HTFUSION=      LHTVAPOR= 0.4850E+06(E)      HTCCSTN= -0.2870E+08(E)      HTDECOMP=      HTSOLUTN= -0.100CE+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.000      LPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LCTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SL SYSTEM OF UNITS

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*****
AFR  CHEMNAME = AMMONIUM FLUORIDE          PATHCODE = SS
      MOLEWT = 37.04      NBP =              NFP =              CRITTEMP=
      DENSITY = 1320.      DENSTEMP= 298.1    SHPSIATE=S      ARHO =              CRITPRES=
      CRHO =              LDUPREND=          LDLWRBND=          LOVISPNT=          BRHO =
      AVIS =              BVIS =              LVUPREND=          LVLWRBND=          LOVISTMP=
      LTHCNTMP=          ACON =              BCON =              LTCUPBND=          LQTHRCND=
      LOHTCPPT=          LOHTCPTM=          AHC =              BHC =              LTCLOBND=
      LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=          LHCUPBND=
      SOLUBPNT= 82.20     SOLUBTMP= 293.1     A = -70.24          B = 0.5200          INTFTMP=
      BVP =              CVP =              VPUPREND=          VPLWRBND=          AVP =
      BVCP =              CVCP =              DVCP =              VHCUPBND=          AVCP =
      HTFUSION=          LHTVAPOR=          HTCOVSIN=          HTDECOMP=          VHCLOBND=
      HTREACTN=          HTPOLYMR=          LOFLWLM=          INHALTME=          HTSOLUTN=
      TOXINHAL= 1.500     INHALCNC=          INHALTME=          LOTOXLIM=          BURNRATE=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          UPTOXLIM=
      MOLFRAC =

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0.1700E+06

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
AGC  CHEMNAME = AMMONIUM GLUCONATE          PATHCODE = SS
MOLEWT = 213.0      NBP =                      NFP =
DENSITY = 1000.      (E) DENSTEMP = 293.1      SHPSTATE = S
CRHO =              LDUPRND =                  LDLWRND =
AVIS =              BVIS =                      LVUPRND =
LTHCNTMP =          ACON =                      BCON =
LQHTCPPT =          LOHTCPTM =                  AHC =
LHCLOBND =          SURFTENS =                  SFTNTMP =
SOLUBPNT = 42.70    SOLUSIMP = 298.1          A =
BVP =              CVP =                      VPUPRND =
BVCP =             CVCP =                      DVCP =
HTFUSION =          LHTVAPOR =                  HTCOMBNTN =
HTREACTN =          HTPOLYMR =                  LOFLMLIM =
TOXINHAL =          INHALCNC =                  INHALIME =
LATETOX =           ABFLMTMP =                  MOLRATIO =
MOLFRAC =
CRITPRES =
BRHO =
LOVISTMP =
LOTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN =
BURNRATE =
UPTOXLIM =
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AID  CHEMNAME = AMMONIUM IODIDE      PATHCODE = SS
MOLEWT = 144.9      NBP =          NFP =          CRITPRES=
DENSITY = 2560.      DENSTEMP= 293.1      SHPSTATE=S      BRHO =
CRHO =              LDUPREND=              LOVISPT=      LOVISIMP=
AVIS =              BVIS =              LVUPREND=      LQTHRCND=
LTHCNTMP=          ACON =              BCDN =          LTCLOBND=
LQHTCPT=          LOHTCPTM=          AHC =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=      INTFTTMP=
SOLUBPNT= 172.0      SOLUBTMP= 293.1      A = -97.30      AVP =
BVP =              CVP =              VPUPREND=      AVCP =
BVCP =              CVCP =              DVCP =          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCONSTN=      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      BURNRATE=
TOXINHAL=          INHALCNC=          INHALTIME=      UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=      FLMETEMP=
MOLFRAC =
0.1000E+06

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ALA  CHEMNAME = ALLYL ALCOHOL          PATHCODE = A  P  Q
MOLECW = 58.08      NBP = 370.1      CRITTEMP = 545.1      CRITPRES = 0.5800E+07
DENSITY = 852.0     OENSTEMP = 293.2  SHPSTATE=L      ARHO = 1089.      BRHO = -0.8000
CRHO = 0.0000E+00  LDUPREND = 313.2  LDWRBND = 273.2  LQVISTMP = LQVISTMP=
AVIS = 8VIS =      LVUPRND =      LVLWRND =      LQTHRCND =      LTCLOBND =
LTHCNTMP =      ACON =      BCON =      BHC = 8.374      LHCUPBND = 353.2
LOHTCPPT = 2052.    LOHTCPTM = 293.2  AHC = -402.3     INTFTTMP =
LHCL08NO = 253.2    SURFTENS =      SFTNTMP =      B = 11.76
SOLU8PNT =      SOLU8TMP =      VPUPRND = 313.2      VPLWRBND = 263.2      AVCP = 0.2626E+05
BVP = 2460.         CVP = 0.4004E-01  QVCP = 0.0000E+00  VHCUPBND = 350.0      VHCLOBND = 250.0
BVCP = 181.3        CVCN = 0.0000E+00  HTCOMSTN = -0.3190E+08  HTOECOMP =      HTSOL, TN = 0.0000E+00(E
HTFUSION =      LHTVAFOR = 0.6866E+06  LOFLMLIM = 2.500      UPFLMLIM = 18.00      BURNRATE = 0.4500E-04
HTREACTN =      HTPOLYMR =      INHALTME = 1800.      LOTOXLIN = 0.5000E-04  UPTOXLIN = 0.5000E-03
TOXINHAL = 2.000    INHALCNC = 5.000      ABFLMTMP =      AIRFUEL =
LATETOX =      MOLFRAC =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ALC  CHEMNAME = ALLYL CHLORIDE
      MOLECWT = 76.53      NBP = 318.2      NFP = 138.7      CRITTEMP= 514.2      CRITPRES= 0.4800E+07
      DENSITY = 938.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1319.      BRHO = -1.300
      CRHO = 0.0000E+00      LDUPREND= 313.2      LDWPRSD= 253.2      LOVISPAI= 0.3200E-03      LOVISIMP= 293.2
      AVIS = -10.92      8VIS = 848.0      LVUPREND= 303.2      LVLWRBND= 283.2      LQTHRCND= 0.1500 (E)
      LTHCNTMP= 300.0 (E)      ACON = 0.1500 (E)      BCON = 0.0000E+00(E)      LTCUPEND= 310.0 (E)      LTCLOBND= 270.0 (E)
      LQHTCPPT= 1298.      LOHTCPTM= 273.2      AHC = 1298.      EHC = 0.0000E+00      LHCUPBND= 293.2
      LHCL08ND= 263.2      SURFTENS= 0.2890E-01      SFTNTMP= 288.2      INTFTENS= 0.5000E-01(E)      INTFTTMP= 290.0 (E)
      SOLU8PNT= 0.3300      SOLUBTMP= 298.2      A = 9.842      AVP = 9.842
      8VP = 1540.      CVP = 0.4004E-01      VPUPRSD= 323.2      VPLWRBND= 273.2      AVCP = 0.1566E+05
      BVCP = 243.3      CVCP = -0.1340      OVCP = 0.0000E+00      VHCUPEND= 500.0      VHCLOSNO= 250.0
      HTFUSION=      LHTVAPOR= 0.3882E+06(E)      HTCONSTN= -0.2268E+08      HTSOLUTN= -0.2000E+05(E)
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 3.300      UPFLMLIM= 11.10      BURNRATE= 0.6830E-04(E)
      TOXINHAL= 1.000      INHALCNC=      INHALTME=      LOTCXLM= 0.5000E-03      UPTOXLM= 0.5000E-02
      LATETOX =      A8FLMTMP=      MOLRATIO=      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ALD	CHEMNAME = ALDRIN	PATHCODE = II	
MOLECW	= 384.9	NBP	=
DENSITY	= 1600.	DENSTEMP	= 293.2
CRHO	=	LDUPREND	=
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LOHTCPPT	=	LOHTCPTM	=
LHCLOBND	=	SURFTENS	=
SOLUBPNT	= 0.1100E-05	SOLUBTMP	= 293.2
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	= 0.1500E-01	INHALCNC	= 0.6100E-01
LAFETOX	=	ABFLMTMP	=
MOLFRAC	=		

CRITPRES	=	CRITTEMP	=
BRHO	=	ARHO	=
LQVISTMP	=	LQVISPNT	=
LQTHRCND	=	LVLWRBND	=
LTCLOBND	=	LTCUPBND	=
LHCUPBND	=	BHC	=
INTFTTMP	=	INTFTENS	=
AVP	=	B	=
AVCP	=	VPLWRBND	=
VHCLOBND	=	VHCUPBND	=
HTSOLUTN	=	HTDECONP	=
BURNRATE	=	UPFLMLIM	=
UPTOXLIM	= 0.5000E-03	LOTOXLIM	= 0.5000E-04
FLMETEMP	=	AIRFUEL	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ALF CHEMNAME = ALUMINUM FLUORIDE PATHCODE = II

MOLEWT = 83.98	NBP =	NFP =	CRITPRES=
DENSITY = 2880.	DENSTEMP= 298.2	SHPSTATE=S	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LQTHRCND=
LTHCNTMP=	ACON =	8CON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTIMP=
SOLUBPNT= 0.5000	SOLUBTMP= 298.7	A =	AVP =
BVP =	CVP =	VPUPRND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCONSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTIME=	UPTOXLIM=
LAFETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PATHCODE = SS

MOLECW	666.4	NP	=	NFP	=	CRITTEMP	CRITPRES
DENSITY	1700.	DENSTEMP	=	293.1	SHPSSTATE=S	ARHO	BRHO
CRHO		LDUPRBN	=		LDLWRBN	LOVISPT	LQVISTMP
AVIS		BVIS	=		LVUPRBN	LVLWRBN	LQTHRCND
LTHCNTMP		ACON	=		BCON	LTCUPBN	LTCLOEND
LQHTCPPT		LOHTCPTM	=		AHC	BHC	LHCUPBND
LHCLGBND		SURFTENS	=		SFTNTMP	INTFTENS	INTFTTMP
SOLUBPNT	38.50	SOLUBTMP	=	298.1	A	B	AVP
EVP		CVP	=		VUPRBN	VPLWRBN	AVCP
EVCP		CVCP	=		DVCP	VHCUPBN	VHCLGBND
HTFUSIGN		LHTVAPOR	=		HTCONSTN	HTDECOMP	HTSOLUTN
HTREACTN		HTPOLYMR	=		LOFLWLIM	UPFLWLIM	BURNRATE
TOXINHAL		INHALCNC	=		INHALTME	LOTXCLIM	UPTOXLIM
LATETOX		ABFLMTMP	=		MOLRATIO	AIRFUEL	FLMETEMP
MOLFRAC							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ALN  CHEMNAME = ALUMINUM NITRATE          PATHCODE = SS
MOLECWT = 375.1      NBP      =      346.0
DENSITY = 1000.      (E) OENSTEMP= 293.1      SHPSTATE=S
CRHO    =           LDUPRNO=
AVIS    =           BVIS    =
LTHCNTMP=           ACON    =
LOHTCPPT=           LOHTCPTM=
LHCLOBNO=           SURFTENS=
SOLUBPNT= 61.00      SOLUBTMP= 273.1      A      = -168.4      E      = 0.8400
BVP      =           CVP      =           VPLWRBND=
BVCP     =           CVCP     =           VHCUPBND=
HTFUSIGN=           LHTVAPOR=           HTDECCOF=
HTREACTN=           HTPOLYMR=           LOPFLMLIM=
TOXINHAL=           INHALCNC=           LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX  =           ABFLMTMP=           AIRFUEL  =
MOLFRAC  =           MOLRATIO=
CRITPRES=
BRHO     =
LOVISTMP=
LOTHRCND=
LTCLOSND=
LHCUPBNO=
INTFTTMP=
AVP      =
AVCP     =
VHCLOSNO=
HTSOLUTN=
BURNRATE=
UPFLMLIM=
LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
FLMETEMP=

```


ALS CHEMNAME = AMMONIUM LAURYL SULFATE

PATHCODE = A P

MOLECWT =	283.0	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	1030.	DENSTEMP=	293.1	SHPSSTATE=L	=	ARHO	BRHO
CRHO =		LDUPREND=		LDLWRSD=		LOVISPT=	LOVISMP=
AVIS =		BVIS =		LVUPREND=		LVLWRSD=	LOTHRCND=
LTHCNTMP=		ACON =		BCON =		LTCUPBSD=	LTCLOCND=
LQHTCPPT=		LOHTCPTM=		AHC =		BHC =	LHCUPEND=
LHCLOBND=		SURFTENS=		SFTNTEMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =		B =	AVP =
BVP =		CVP =		VPUPREND=		VPLWRSD=	AVCP =
BVCP =		CVCP =		DVCP =		VHCUPEND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMBNTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIN=		UPFLMLIN=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTIME=		LOTOXLIN=	UPTOXLIM=
LAFETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ALT CHEMNAME = AMMONIUM LACTATE PATHCODE = SS

MOLEWT = 107.1	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1200.	DENSTEMP= 288.1	SHPSTATE=S	ZRHO =	BRHO =
CRHO =	LDUPRBND=	LDLWPSND=	LQVISPAT=	LQVISIMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBNO=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBNO=
LHCLOBND=	SURFTENS=	SFTNTIMP=	INTFTENS=	INTFTIMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VPUPRBND=	VPLWPSND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCONSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =	ABFLNTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
AMA  CHEMNAME = AMMONIA ANHYDROUS      PATHCODE = A  B  C  K  L  M  N  O
MOLEWT = 17.03      NBP = 239.8      NFP = 195.5      CRITPRES= 0.1127E+08
DENSITY = 682.0      DENSTEMP= 239.8      SHPSTATE=L      BRHO = 6.130
CRHO = -0.1360E-01      LOUPRND= 253.2      LDLWRBND= 195.2      LOVISTMP=
AVIS =      BVIS =      LVUPRND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPEND=      LTCLOBND=
LOHTCPPT= 4480.      LQHTCPTM= 240.2      AHC = 3462.      LHCUPBND= 273.2
LHCLOBND= 213.2      SURFTENS=      SFTINTEMP=      INTFTTMP=
SOLUBTMP=      A =      B =      AVF = 10.15
BVP = 1233.      CVP = 0.0000E+00      VPUPRND= 313.0      VPLWRND= 233.0      AVCP = 0.2730E+D5
BVCP = 23.86      CVCP = 0.1717E-01      DVCP = 0.1172E-04      VHCUPBND= 250.0      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.1369E+07      HTCOWSTN= -0.1859E+08      HTSOLUTN= -0.5650E+D6(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 15.50      UPFLMLIM= 27.00      BURNRATE= 0.1667E-04
TOXINHAL= 25.00      INHALCNC= 100.0      INHALTME= 1800.      LOTOXLIM=
LAETOX =      ABFLMTMP=      MOLRATIO= 0.8750      (E) AIRFUEL = 6.050      (E) FLNETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
AMB  CHEMNAME = AMMONIUM MOLYBDATE          PATHCODE = SS
      MOLEWT = 123.6      NBP =              NFP =
      DENSITY = 1400.     DENSTEMP= 293.1     SHPSSTATE=S
      CRHO =              LDUPREND=          LDLWPBND=
      AVIS =              BVIS =             LVUPRBND=
      LTHCNT/MP=          ACON =             BCON =
      LQHTCPPT=           LQHTCPTM=          AHC =
      LHCLOBND=           SURFTENS=          SFTNIEMP=
      SOLUBPNT= 43.00     SOLUBTMP= 293.1     A =
      BVP =              CVP =              VPUPBND=
      BVCP =              CVCP =             DVCP =
      HTFUSION=           LHTVAPOR=          HTCCWSTN=
      HTREACTN=           HTPOLYMR=          LOFLMLIM=
      TOXINHAL= 0.9000    INHALCNC=          INHALTME=
      LATETOX =           ABFLMTP=           MOLRATIO=
      MOLFRAC =
      CRITPRES=
      BRHO =
      LOVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.5000E-03
      FLMETEMP=
      LOTOXLIM= 0.5000E-04
      AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AMC	CHEMNAME = AMMONIUM CHLORIDE	PATHCODE = SS	
MOLEWT =	53.50	NBP =	CRITPRES=
DENSITY =	1530.	DENSTEMP= 293.1	BRHO =
CRHO =		LDUPRND=	LQVISTMP=
AVIS =		BVIS =	LQTHRCND=
LTHCNTMP=		ACON =	LTCLOBND=
LQHTCPPT=		LOHTCPTM=	LHCUPBND=
LHCLOBND=		SURFTENS=	INTFTTMP=
SOLUBPAT=	37.40	SOLUBTMP= 293.1	AVP =
BVP =		CVP =	AVCP =
BVCP =		CVCP =	VHCLOBND=
HTFUSION=		LHTVAPOR=	HTSOLUTN= 0.3000E+05
HTREACTN=		HTPOLYMR=	BURNRATE=
TOXINHAL=	4.200	INHALCNC=	UPTOXLIM= 0.5000E-02
LAFETOX =		ABFLMTMP=	FLMETEMP=
MOLFRAC =		MOLRATIO=	
		INHALTME=	LOTDXLIM= 0.5000E-03
		LOFLMLIM=	UPTFLMLIM=
		HTCOYSTN=	HTDECOMP=
		VPUPRND=	VPLWRND=
		DVCP =	VHCUPBND=
		A = -79.86	B = 0.4000
		SFTNTMP=	INTFTENS=
		AHC =	BHC =
		BCON =	LTCUPBND=
		LVUPRND=	LVLWRBND=
		LDLWRND=	LOVISPT=
		SHPSSTATE=S	ARHO =
		NFP =	CRITTEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AMD	CHEMNAME = AMMONIUM DICHRMATE	PATHCODE = SS Z	
MOLEWT = 252.1	NBP =	NFP =	CRITPRES=
DENSITY = 2150.	DENSTEMP= 298.1	SHPSSTATE=S	BRHO =
CRHO =	LDUPRBND=	LDLWRSND=	LQVISTMP=
AVIS =	BVIS =	LVUPRSND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT= 26.23	SOLUBTMP= 293.1	A = -129.4	AVP =
BVP =	CVP =	VPUPRSND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOASTN=	HTSOLUTN= 0.960DE+05
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMF  CHEMNAME = AMMONIUM SULFITE          PATHCODE = SS
MOLEWT = 134.2      NBP =                NFP =
DENSITY = 1100.      (E) DENSTEMP= 293.1  SHPSTATE=S
CRHO =              LDUPRND=
AVIS =              BVIS =
LTHCNTMP=           ACON =
LQHTCPT=            LQHTCPTM=
LHCLOBND=           SURTENS=
SOLUBPNT= 61.30     SOLUBTMP= 293.1      A = -135.1  B = 0.570D
BVP =              CVP =                 VPLWRBND=
BVCP =             CVCP =                 VHCUPBND=
HTFUSION=           LHTVAPOR=             HTDECOMP=
HTREACTN=           HTPOLYMR=             UPFLW LIM=
TOXINHAL=           INHALCNC=             LOTOX LIM=
LATETOX =           ABFLMTMP=             AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN= 0.4770E+05
BURNRATE=
UPTOX LIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMH  CHEMNAME = AMMONIUM HYDROXIDE          PATHCODE = A  P  R  S
MOLEWT =          NBP =          CRITEMP=
DENSITY = 890.0      OENSTEMP= 293.2      SHPSRATE=L      CRITPRES=
CRHO = 0.0000E+00    LDUPRND= 303.2      LDLWRND= 258.2      ARHO = 1D64      BRHO = -0.6D00
AVIS =              BVIS =              LVUPRND=          LOVISIMP=
LTHCNTMP=           ACON =              BCON =          LOTHRCND=
LQHTCPPT= 4187.      LOHTCPTM= 293.2      AHC = 4187.      LTCLOBND=
LHCLOBND= 273.2      SURFTENS=          SFTNTEMP=          LTCLOBND= 298.2
SOLUBPNT=           SOLUBTMP=          A =              B =          INTFTIMP=
BVP =              CVP =              VPUPRND=          VPLWRND=          AVP =
BVCP = 23.86        CVCP = 0.1717E-01      DVCP = 0.1172E-04      VHCUPBND= 6D0.0      AVCP = 0.2730E+05
HTFUSION=          LHTVAPOR=          HTCCOYSTN=          VHCLOBND= 250.0      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLCLIM=          UPFLMLIN=          BURNRATE=
TOXINHAL= 1.000     INHALCNC= 100.0      INHALTIME= 1800.      LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELDS VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
AMK  CHEMNAME = N-AMYL METHYL KETONE      PATHCODE = A  T  U
MOLEWT = 114.2      NBP = 424.7      NFP = 238.0      CRITTEMP=
DENSITY = 817.0      DENSTEMP= 293.1      SHPSSTATE=L      CRITPRES=
CRHO = 0.0000E+00(E) LOUPRNO= 298.1      LDLWRNO= 273.1      LOVISPNT= 0.8100E-03      BRHO = 1110.      (E) BRHO = -1.000      (E)
AVIS = -10.31      BVIS = 933.0      LVUPRNO= 298.1      LVLWRNO= 283.1      LOTHROND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LOHTCPPT= 1884.      (E) LOHTCFTN= 293.1      AHC = 1884.      (E) BHC = 0.0000E+00(E) LHCUPBNO= 293.1
LHCLONBD= 283.1      SURFTENS= 0.2617E-01      SFTNTEMP= 298.1      INTFTENS=
SOLUBPNT= 0.4300      SOLUBTMP= 293.1      A = 0.4300      B = 0.0000E+00      AVP = 10.22
BVP = 2214.      CVP = -0.1500      VPUPRNO= 433.1      VPLWRNO= 293.1      AVCP = 0.1590E+05(E)
BVCP = 624.2      (E) CVCP = -0.3403      (E) DVCP = 0.7180E-04(E) VHCUPBND= 500.0      VHCLONBD= 250.0
HTFUSION=      LHTVAPOR= 0.3460E+06      HTCOMSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.110      UPFLMLIM= 7.900      BURNRATE=
TOXINHAL= 100.0      (E) INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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AML  CHEMNAME = AMYL ACETATE
      PATHCODE = A T U
      MOLEWT = 130.2 NBP = 419.0 NFP = 173.0 (E) CRITTEMP=
      DENSITY = 876.0 DENSTEMP= 293.2 SHPSTATE=L ARHO = 1173. CRITPRES=
      CRHO = 0.0000E+00 LOUPRBD= 298.2 LDLWRSD= 273.2 LOVISPNT= 0.1020E-02 LOVISTMP= 293.2 BRHO = -1.0000
      AVIS = -20.68 BVIS = 4041. LVUPRBD= 303.2 LVLWRBD= 283.2 LOTHRCNO= 0.1303
      LTHCNTMP= 293.2 ACON = 0.1952 BCON = -0.2210E-03 LTCUPBD= 363.2 LTCLOBNO= 283.2
      LOHTCPTM= 1926. LOHTCPTM= 293.2 AHC = 1129. BHC = 2.763 LHCUPBD= 373.2
      LHCLDBND= 273.2 SURFTENS= 0.2568E-01 SFTINTMP= 293.2 INTFTENS= 0.5000E-01(E) INTFTTMP= 290.0 (E
      SOLUBPNT= 0.2000 SOLUBTMP= 293.2 A = B = AVP = 10.30
      BVP = 2220. CVP = 0.4004E-01 VPUPRBD= 423.2 VPLWRBD= 273.2 AVCP = 0.2315E+05
      BVCP = 586.2 CVCP = -0.242B DVCP = 0.1424E-04 VHCUPBD= 600.0 VHCLOBND= 250.0
      HTFUSIGN= LHTVAPOR= 0.3140E+06 HTCOMSTN= -0.3108E+08 HTDECOMP= HTSOLUTN=
      HTREACTN= HTPOLYMR= LCFLMLIM= 1.100 UPFLMLIM= 7.500 BURNRATE= 0.6833E-04
      TOXINHAL= 100.0 INHALCNC= 200.0 INHALTME= 1800. LOTCXLMIM= UPTOXLM=
      LAETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
      MOLFRAC = FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMM  CHEMNAME = N-AMYL MERCAPTAN      PATHCODE = A  T  U
MOLEWT = 104.2      NBP      = 393.0      NFP      = 197.0      CRITTEMP= 594.0      CRITPRES= 0.3500E+07
DENSITY = 842.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 1106.      BRHO      = -0.9000
CRHO      = 0.0000E+00      LOUPRNO= 303.1      LCLWRBND= 273.1      LCVISPT= 0.3200E-02(E)      LQVISTMP= 293.1
AVIS      = -12.91      (E)      BVIS      = 2100.      (E)      LVUPRND= 293.1      LVLWRBND= 273.1      LQTHRCNO= 0.1512      (E)
LTHCNTMP= 293.1      ACON      = 0.1512      (E)      BCON      = 0.0000E+00(E)      LTCUPBND= 293.1      LTCLOBNO= 273.1
LOHTCPPT= 1926.      LOHTCPTM= 298.1      AHC      = 677.6      (E)      BHC      = 4.187      (E)      LHCUPBNO= 303.1
LHCLOBNO= 273.1      SURFTENS= 0.2680E-01      SFTINTMP= 293.1      INTFTENS= 0.3500E-01(E)      INTFTTMP= 293.1
SOLUBTMP=      A      =      B      =      AVP      = 10.47
BVP      = 2146.      CVP      = -0.1500      VRUPRNO= 393.1      VPLWRBNO= 273.1      AVCP      = 0.1419E+06
BVCP      = 0.0000E+00      CVCP      = 0.0000E+00      OVCP      = 0.0000E+00      VHCUPBND= 50.0      VHCLOBNO= 250.0
HTFUSION=      LHTVAPOR= 0.3970E+06      HTCOMSTN= -0.3660E+08(E)      HTOECOMP=
HTREACTN=      HTPOLYMR=      LOFLMLIN=      IOPFLMLIN=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

BURNRATE= 0.7849E-04

UPTOXLIM=

FLMETEMP=

MOLECW	80.05	NP	=	NFP	=	443.1	CRITTEMP	CRITPRES
DENSITY	1720.	OENSTEMP	=	293.2	SHSTATE=S		ARHO	BRHO
CRHO		LDUPREND	=		LDLW=END		LOVISPLT	LOVISTMP
AVIS		BVIS	=		LVLPREND		LVLWRB'D	LOTHRCD
LTHCNTMP		ACON	=		BCON		LTCU°B'D	LTCLOBND
LQHTCPPT		LQHTCPTM	=		AHC		BHC	LHCUPBND
LHCLOBND		SURFTENS	=		SFTNTEMP		INTFTENS	INTFTTMP
SOLUBPNT		SOLUBTMP	=		A	= -930.9	B	AVP
BVP		CVP	=		VPUPREND		VPLWRB'D	AVCP
BVCP		CVCP	=		DVCP		VHCUBB'D	VHCLOBND
HTFUSIGN		LHTVAPOR	=		HTCOYSTN		HTDECOMP	HTSOLUTN
HTREACTN		HTPOLYMR	=		LOFLW'LIM		UPFLW'LIM	BURNRATE
TOXINHAL		INHALCNC	=		INHALTME		LOTOXLIM	UPTOXLIM
LATETOX		ABFLWMTMP	=		MOLRATIO		AIRFUEL	FLMETEMP
MOLFRAC								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

AMR  CHEMNAME = AMMONIUM STEARATE          PATHCODE = A  P  SS
MOLEWT = 301.5      NBP =          CRITTEMP=
DENSITY = 1010.     DENSTEMP= 293.1  ARHO =
CRHO =             LOUPRBD=          LOVISTMP=
AVIS =             BVIS =            LOTHRCND=
LTHCNTMP=          ACON =            LTCLOBND=
LOHTCPPT=          LOHTCPTM=          LHCUPBND=
LHCLOBND=          SURFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          AVP =
BVP =             CVP =             AVCP =
BVCP =            CVCP =            VHCLOBND=
HTFUSION=          LHTVAPOR=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          BURNRATE=
TOXINHAL=          INHALCNC=          UPTOXLIM=
LATETOX =          ABFLMTMP=          FLMETEMP=
MOLFRAC =          MOLRATIO=          AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMS   CHEMNAME = AMMONIUM SULFATE          PATHCODE = SS
MOLEWT = 132.1      NBP =                NFP =
DENSITY = 1780.     DENSTEMP= 288.2      SHPSTATE=S
CRHO =              LDUPRBND=             LDLWRBND=
AVIS =              BVIS =                LVUPRBND=
LTHCNTMP=           ACON =                LTCUPBND=
LQHTCPPT=           LQHTCPTM=             BHC =
LHCLOBND=           SURFTENS=             INTFTENS=
SOLUBPNT=           SOLUSTMP=             A = -242.7
BVP =               CVP =                 VPLWRBND=
BVCP =              CVCP =                VHCUPBND=
HTFUSION=           LHTVAPOR=             HTDECOMP=
HTREACTN=           HTPOLYMR=             UPFLMLIM=
TOXINHAL=           INHALCNC=             LOTOXLIM=
LAFETOX =           ABFLNTMP=             AIRFUEL =
MOLFRAC =
*****
CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 1.070
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMT  CHEMNAME = AMMONIUM THIOCYANATE      PATHCODE = A  P  SS
MOLEWT = 76.12      NBP =              CRITTEMP=
DENSITY = 1100.      (E) DENSITY = 293.1  SHPSRATE=S  ARHO =
CRHO =              LDUPREND=              LOVISPT=
AVIS =              BVIS =              LVLARBND=
LTHCNTMP=          ACON =              LTCUPBND=
LOHTCPPT=          LOHTCPTM=          BHC =
LHCLOBND=          SURFTENS=          INTFTMP=
SOLUBPNT= 167.0    SOLUBTMP= 293.1      A = -692.3    B = 2.930
BVP =              CVP =              VPLWRBND=
BVCP =              CVCP =              VHCUPBND=
HTFUSIGN=          LHTVAPOR=          HTDECCP=
HTREACTN=          HTPOLYMR=          UPFLMLIM=
TOXINHAL=          INHALCNC=          LOTCXLIN=
LATEFOX =          ABFLMTMP=          UPTOXLIM=
MOLFRAC =          MOLRATIO=          AIRFUEL =
CRITPRES=
BRHO =
LOVISIMP=
LOTHRCNO=
LTCLOBNO=
LHCUPBNO=
INTFTMP=
AVP =
AVCP =
VHCLOBNO=
HTSOLUTN= 0.3100E+06
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMY  CHENAME = N-AMYL CHLORIDE          PATHCODE = A  T  U
MOLEWT = 106.6      NBP = 381.0      NFP = 174.0      CRITTEMP=
DENSITY = 882.0      OENSTEMP= 293.1      SHPSSTATE=L      ARHO = 1175.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LOUPRENO= 313.1      LOLWEND= 273.1      LOVISPNT= 0.3200E-02(E) LOVISTMP= 293.1
AVIS = -12.91      (E) BVIS = 2100.      (E) LVUPRNO= 293.1      LVLWRBNO= 273.1      LQTHRCNO= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 293.1      LTCLOBND= 273.1
LQHTCPPT= 1717.      (E) LQHTCPTM= 293.1      AHC = 489.2      (E) BHC = 4.187      (E) LHCUPBNO= 293.1
LHCLOBND= 273.1      SURFTENS= 0.2500E-01(E) SFINTEMP= 293.1      INTFTENS= 0.3500E-01(E) INTFTMP= 293.1
SOLUBPNT=          A =          B =          AVP = 9.716      (E)
BVP = 1794.      (E) CVP = 0.5000E-01(E) VPUPRNO= 383.1      VPLWRBND= 273.1      AVCP = 0.2199E+05(E)
BVCP = 456.4      (E) CVCP = -0.2415      (E) OVCP = 0.4940E-04(E) VHCUPBND= 200.0      VHCLOBNO= 300.0
HTFUSION=          LHTVAPOR= 0.3200E+06(E) HTCOMBNTN= -0.3040E+08(E) HTOECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.400      LPFLMLIM= 8.600      BURNRATE= 0.8183E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ANI  CHEMNAME = ISO-AMYL NITRITE          PATHCODE = A   T   U   V   W
      MOLEWT = 117.1      NBP = 372.0      CRITTEMP =
      DENSITY = 871.0      DENSTEMP = 293.1      SHPSTATE=L      ARHO = 1164.      (E) BRHO = -1.000      (E)
      CRHO = 0.0000E+00(E) LDUPREND = 298.1      LOLWRBND = 283.1      LOVISPT = 0.3200E-02(E) LQVISTMP = 293.1
      AVIS = -12.91      (E) BVIS = 2100.      (E) LVUPREND = 298.1      LVLWRBND = 283.1      LOTHRCNO = 0.1861      (E)
      LTHCNTMP = 293.1      ACON = 0.1861      (E) ECON = 0.0000E+00(E) LTCUPBND = 293.1      LTCLOBND = 283.1
      LQHTCPPT = 1884.      (E) LOHTCPTM = 293.1      AHC = 1884.      (E) BHC = 0.0000E+00(E) LHCUPBND = 293.1
      LHCLQ8ND = 283.1      SURFTENS = 0.2000E-01(E) SFTNIEMP = 293.1      INTFTENS = 0.4000E-01(E) INTFTMP = 293.1
      SOLUBPNT =          SOLUBTMP =          A =          B =          AVP = 13.17
      BVP = 3036.      CVP = -0.1500      VPUPRENO = 393.1      VPLWRBND = 293.1      AVCP = 0.1256E+06(E)
      BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) OVCP = 0.0000E+00(E) VHCUPBND = 350.0      VHCLOBND = 250.0
      HTFUSION =          LHTVAPOR = 0.4940E+06      HTCOASTN = -0.2900E+08      HTDECOMP =          HTSOLUTN =
      HTREACTN =          HTPOLYMR =          LOFLMLIM =          UPFLMLIM =          BURNRATE = 0.5678E-04
      TOXINHAL =          INHALCNC =          INHALTIME =          LOTOXLM = 0.5000E-02      UPTOXLM = 0.1500E-01
      LATETOX =          ABFLMTMP =          MOLRATIO =          AIRFUEL =          FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ANL  CHEMNAME = ANILINE
      MCLEWT = 93.13      NBP = 457.4      NFP = 267.1      PATHCODE = A P Q T U X Y
      DENSITY = 1022.      DENSTEMP= 293.2      SHPSIATE=L      CRITTEMP= 698.8      CRITPRES= 0.5310E+07
      CRHO = 0.9000E-04      LDUPRBNQ= 373.2      LOLWRBND= 273.2      LQVISPNT= 0.4300E-02      BRHO = -0.9192      LQVISTMP= 293.2
      AVIS = -13.90      BVIS = 2477.      LVUPRBNQ= 393.2      LVLWRBND= 273.2      LQTHRCND= 0.1779
      LTHCNTMP= 293.2      ACON = 0.3314      8CON = -0.5233E-03      LTCUPBND= 363.2      LTCLOBND= 283.2
      LQHTCPPT= 2072.      LQHTCPTM= 293.2      AHC = 1041.      BHC = 3.517      LHCUPBNO= 323.2
      LHCLOBND= 273.2      SURFTENS= 0.4550E-01      SFTNTEMP= 293.2      INTFTENS= 0.5800E-02      INTFTIMP= 293.2
      SOLUBTMP= 3.700      A = 303.1      A = 12.06
      BVP = 3090.      CVP = 0.4004E-01      VPUPRBNQ= 373.2      VPLWRBND= 283.2      AVCP = -0.4051E+05
      BVCP = 636.4      CVCP = -0.5024      DVCP = 0.1633E-03      VHCUPBND= 600.0      VHCLOBNO= 250.0
      HTFUSION=      LHTVAPOR= 0.4605E+06      HTCOMBNT= -0.3483E+08      HTOECONP=      HTSOLUTN=
      HTPOLYMR=      HTPOLYMR=      LOFLNLIM= 1.300      UPFLMLIM=      BURNRATE= 0.5000E-04
      TOXINHAL= 5.000      INHALCNC= 50.00      INHALTME= 1800.      LOTCXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ANP  CHEMNAME = AMMONIUM NITRATE-PHOSPHATE MIXTURE      PATHCODE = SS
      MOLEWT =      NBP =      DENSTEMP= 293.1      SHPSTATE=S
      DENSITY = 1800.      LDUPRBN=      BVIS =      ACON =      LQHTCPTM=
      CRHO =      AVIS =      LTHCNTMP=      LQHTCPPT=      LHCLOBND=
      LQHTCPTM=      SURFTENS=      SOLUBPNT=      BVP =      BVCP =
      LHTFUSION=      HTREACTN=      TOXINHAL=      LAFETOX =
      MOLFRAC =      NBP =      DENSTEMP= 293.1      SHPSTATE=S
      LDUPRBN=      BVIS =      ACON =      LQHTCPTM=
      LQHTCPPT=      LHCLOBND=      SURFTENS=      SOLUBPNT=
      BVP =      BVCP =      LHTFUSION=      HTREACTN=
      TOXINHAL=      LAFETOX =      MOLFRAC =
      CRITPRES=      BRHO =      LQVISTMP=      LQTHRCND=
      LTCLOBND=      LHCUPBND=      INTFTTMP=      AVP =
      AVCP =      VHCLOBND=      HTSOLLTN=      BURNRATE=
      UPTOXLIM=      FLMETEMP=
      CRITTEMP=      ARHO =      LQVISPNT=      LVLWRBND=
      LTCUPBND=      BHC =      INTFTENS=      B =
      VPLWRBND=      VHCUPBND=      HTDECONP=      UPFLMLIM=
      LOTOXLIM=      AIRFUEL =
      NFP =      SHPSTATE=S      LDWRBND=      LVUPRBN=
      BCON =      AHC =      SFTNTEMP=      A =
      VPUPRBN=      DVCP =      HTCCWSTN=      LOFLMLIM=
      INHALTME=      MOLRATIO=
      ABFLNTMP=

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/44/24 PAGE 60

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ANS	CHEMNAME = AMMONIUM NITRATE-SULFATE MIXTURE	PATHCODE = SS	
MOLECW =	NBP =	NFP =	CRITTEWP =
DENSITY = 1800.	DENSTEMP = 293.1	SHPSTATE = S	CRHO =
CRHO =	LOUPRBND =	LDLWRBND =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VPUPRBND =	AVCP =
BVCP =	CVCP =	OVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM =
LAFETOX =	ABFLNTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ANU  CHEMNAME = AMMONIUM NITRATE-UREA SOLUTION      PATHCODE = A  P
      MOLEWT =      NBP      = 373.0  (E) NFP      = 273.0
      OENSITY = 1327.      OENSTMP= 293.1  SHPSTATE=L
      CRHO    = 0.0000E+00(E) LOUPRBN= 293.1  LOLWRSD= 273.1  LOVISPT= 0 1400E-02(E) LQVISTMP= 298.1
      AVIS    = -20.01  (E) BVIS  = 4000.  (E) LVUPRSNO= 298.1  LVLWRBNO= 283.1  LQTHRCNO= 0.5815  (E
      LTHCNTMP= 293.1  ACON    = 0.5815  (E) BCON    = 0.0000E+00(E) LTCUPBND= 293.1  LTCLOBND= 273.1
      LQHTCPPT= 3768.  (E) LQHTCPTM= 293.1  AHC      = 3768.  (E) BHC      = 0.0000E+00(E) LHCUPBNO= 293.1
      LHCLOBNO= 273.1  SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
      BVP      =      CVP      =      VPUPRSNO=      VPLWRBND=      AVCP      =
      BVCP      =      CVCP      =      OVCP      =      VHCUPBNO=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCONSTN=      HTSOLUTN=      0.0000E+00
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      0.5000E-03  UPTOXLIM=      0.5000E-02
      LATETOX  =      ABFLMTMP=      MOLRATIO=      AIRFUEL  =      FLMETEMP=
      MOLFRAC  =

```

MOLEWT =	299.5	=	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	1000.	(E)	DENSTEMP=	293.1	SHPSTATE=S	=	ARHO	BRHO =
CRHO =			LDUPRBNQ=		LDLWRBND=		LOVISPNT=	LOVISTMP=
AVIS =			BVIS =		LVUPRBNQ=		LVLWRBND=	LQTHRCND=
LTHCNTMP=			ACON =		BCON =		LTCUPBND=	LTCLOBND=
LQHTCPPT=			LOHTCPTM=		AHC =		BHC =	LHCUPBND=
LHCLOBND=			SURFTENS=		SFTNTMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=			SOLUBTMP=		A =		B =	AVP =
BVP =			CVP =		VUPRBNQ=		VPLWRBND=	AVCP =
BVCP =			CVCP =		DVCP =		VHCUPBND=	VHCLOBND=
HTFUSION=			LHTVAPOR=		HTCOBNTN=		HTDECCP=	HTSOLUTN=
HTREACTN=			HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=			INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=
LAFETOX =			ABFLWMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =								

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AOX	CHEMNAME = AMMONIUM OXALATE	PATHCODE = SS II	
MOLECW = 142.1	NBP =	NFP =	CRITPRES =
DENSITY = 1500.	OENSTEMP = 291.6	SHPSATE = S	BRHO =
CRHO =	LDUPREND =	LDLWREND =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LQTHRCND =
LTHCNTMP =	ACON =	BCDN =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	LHCUPBND =
LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTTMP =
SOLUBPNT = 4.800	SOLUBTMP = 293.1	A = -30.38	AVP = 0.1200
BVP =	CVP =	VPUPREND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTSOLUTN = 0.2300E+06
HTREACTN =	HTPOLYMR =	LDFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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APB  CHEMNAME = AMMONIUM PENTABORATE          PATHCODE = SS
      MOLEWT = 272.2      NBP =      NFP =      CRITEMP=      CRITPRES=
      DENSITY = 1580.      DENSTEMP= 288.1      SHPSTATE=S      BRHO =
      CRHO =      LDUPRBND=      LDWRBND=      LQVISPNT=      LQVISTMP=
      AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBRND=      LTCLOBND=
      LQHTCPPT=      LQHTCPTM=      AHC =      LHCUPBND=      LHCLOBND=
      LHCLOBND=      SURFTENS=      SFTNTIMP=      INTFTENS=      INTFTIMP=
      SOLUBPNT= 10.60      SOLUBTMP= 293.1      A =      B =      AVP =
      BVP =      CVP =      VPUPRBND=      VPLWRBND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBRND=      VHCLOBND=
      HTFUSIGN=      LHTVAPOR=      HTCONBNTN=      HTDECONP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIN=      BURNRATE=
      TOXINHAL= 0.8200      INHALCNC=      INHALTME=      LOTOXLIN=      UPTOXLIM=
      LAIETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PATHCODE = A O

[illegible]

PATHCODE = SS

	MOLECWT =	228.2	NBP =	NFP =	CRITTEMP=	CRITPRES=
	DENSITY =	1980.	OENSTEMP=	SHPSTATE=S	ZRHO =	B.RHO =
	GRHO =		LOUPREND=	LDLURENO=	LQVISPNT=	LQVIS TMP=
	AVIS =		BVIS =	LVUPPREND=	LVLRBHD=	LQTHRCNO=
	LHCHNTPM=		ACON =	BCON =	LTCUPSHD=	LTCLOBNO=
	LQHTCPPT=		LOHTCPTM=	AHC =	SHC =	LHCUPBNO=
	LHCLOBND=		SURFTENS=	SFTNTEMP=	INTFTE+S=	INFTETMP=
	SOLUBPNT=	77.00	SOLUBTMP=	A = -187.1	B = 0.9000	AVP =
	BVP =		CVP =	VPUPPREND=	VPLWREND=	AVCP =
	BVCV =		CVCV =	OVCV =	VHCUPEND=	VHCLOBND=
	HTEFUSIGN=		LHTVAPOR=	HTCOVBTN=	HTOECOMP=	HTSOLUTION=
	HTREACTN=		HTPOLYMR=	LOFLMLIM=	UFFFLWLIM=	BURNRATE=
	TOXINHAL=		INHLCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
	LATETOX =		ABFLTMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
	MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
APF  CHERNAME = ANTIMONY PENTAFLUORIDE          PATHCODE = A  0
MOLECWT = 216.7      NBP = 416.0      NFP = 280.0      CRITTEMP=
DENSITY = 3150.      DENSTEMP= 283.1      SHPSTATE=L      ARHO = 3438.      (E)  BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRNO= 298.1      LDLWRSND= 283.1      LQVISPT= 0.8200E-03(E) LOVISTMP= 293.1
AVIS = -11.61      (E)  BVIS = 1320.      (E)  LVUPRSND= 298.1      LVLWRSND= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E)  BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1675.      (E)  LOHTCPTM= 293.1      AHC = 1675.      (E)  BHC = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 283.1      SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.1      INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 10.01      (E)
BVP = 2080      (E)  CVP = -0.1500      (E)  VPUPRSND= 423.1      VPLWRBND= 373.1      AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBND=          VHCLOBNO=
HTFUSION=          LHTVAPOR= 0.1800E+06(E) HTCOMSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLW/LIM=          UPFLMLIM=          BURNRATE=
TOXINHAL= 0.5200E-01      INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

APP  CHEMNAME = AMMONIUM PHOSPHATE          PATHCODE = SS
MOLEWT =          NBP =          NFP =
DENSITY = 1700. (E) DENSTEMP= 293.1  SHPSTATE=S
CRHO =          LOUPRBND=
AVIS =          BVIS =          LVUPRBND=
LTHCNTMP=          ACON =          BCON =
LOHTCPPT=          LOHTCPTM=          AHC =
LHCLOBND=          SURFTENS=          SFTNTMP=
SOLUBPNT= 68.90  SOLUBTMP= 293.1  A = -139.2  B = 0.7100
BVP =          CVP =          VPUPRBND=
BVCP =          CVCP =          DVCP =
HTFUSICN=          LHTVAPOR=          HTCOYSTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=
LATETOX =          ABFLMTMP=          MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCNO=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=
CRITTEP=
ARHO =
LOVISPNT=
LVLWRBND=
LTCUPBND=
EHC =
INTFTENS=
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIN=
LOTCXLIM=
AIRFUEL =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
APS      CHEMNAME = ACETYL PEROXIDE SOLUTION      PATHCODE = A   X   Y
MOLECWT = 118.1 (E) NBP = 265.0
DENSITY = 1200. OENSTEMP= 293.1 SHPSIATE=L
CRHO = 0.0000E+00(E) LOUPRBN= 303.1 LOLWFSNO= 273.1 ARHO = 1493. (E) BRHO = -1.000 (E)
AVIS = -12.91 (E) BVIS = 2100. (E) LVUPRBN= 303.1 LVLWRBND= 273.1 LOTHRCND= 0.1396 (E)
LTHCNTMP= 293.1 ACON = 0.1396 (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1 LTCLOBNO= 273.1
LQHTCPPT= 1758. (E) LQHTCPTM= 293.1 AHC = 1758. (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 273.1 SURFTENS= 0.3000E-01(E) SFTNTMP= 293.1 INTFTES= 0.3000E-01(E) INTFTMP= 293.1
SOLUBPNT= SOLUBTMP= A = B = AVP =
BVP = CVP = VPUPRBN= VPLWRBND= AVCP =
BVCP = CVCP = OVCP = VHCUPBND=
HTFUSION= LHTVAPOR= HTCOMBTN= -0.3660E+08(E) HTDECOMP= -0.1200E+06(E) HTSOLUTN=
HTREACTN= LHPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
TOXINHAL= INHALCNC= INHALTIME= LOTOXLIM= UPTOXLIM=
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

APT CHEMNAME = ANTIMONY POTASSIUM TARTRATE PATHCODE = SS

MOLEWT = 334.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2600.	DENSTEMP= 293.1	SHPSTATE=S	ARHD =	BRHO =
CRHO =	LDUPREND=	LDLWREND=	LOVISPAT=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOSND=
LQHTCPPT=	LQHTCPTM=	AHC =	EHC =	LHCUPBNO=
LHCLOBNO=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTIMP=
SOLUBPNT= 8.700	SOLUBTMP= 298.1	A =	B =	AVP =
BVP =	CVP =	VPUPREND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECCAP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIN=	UPFLMLIN=	BURNRATE=
TOXINHAL= 0.340DE-01	INHALCNC=	INHALTIME=	LOTOXLIN=	UPTOXLIM= 0.500CE-03
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ARD	CHEMNAME = ARSENIC DISULFIDE	PATHCODE = 11	
MOLEWT =	214.0	NBP =	838.0
DENSITY =	3500.	DENSTEMP =	293.1
CRHO =		LDUPRBND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.5200E-02	INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	580.0
		SHPSSTATE =	S
		LDLWRBND =	
		LVUPRBND =	
		BCON =	
		AHC =	
		SFTNTEMP =	
		A =	
		VPUPRBND =	
		DVCP =	
		HTCON:STN =	
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	
		LQVISPNT =	
		LVLWRBND =	
		LTCUPBNC =	
		BHC =	
		INTFTENS =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIW =	0.5000E-04(E
		FLMETEMP =	

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
      ARL  CHEMNAME = ACROLEIN
      MOLEWT = 56.10      NBP = 326.0      PATHCODE = A P O R S Z
      DENSITY = 843.0      OENSTEMP = 293.1      SHPSTATE=L      NFP = 186.0      CRITTEMP = 527.0      (E) CRITPRES = 0.5080E+07(E)
      CRHO = 0.0000E+00      LDUPRBN = 373.1      BVIS = 770.0      ACON = 0.4242      LQHTCPTM = 293.1      LQHTCPTM = 293.1      LQHTCPTM = 293.1
      AVIS = -10.57      BVIS = 770.0      ACON = 0.4242      LQHTCPTM = 293.1      LQHTCPTM = 293.1      LQHTCPTM = 293.1
      LTHCNTMP = 293.1      ACON = 0.4242      LQHTCPTM = 293.1      LQHTCPTM = 293.1      LQHTCPTM = 293.1      LQHTCPTM = 293.1
      LQHTCPTM = 2257.      LQHTCPTM = 293.1      LQHTCPTM = 293.1      LQHTCPTM = 293.1      LQHTCPTM = 293.1      LQHTCPTM = 293.1
      LHCLOBNO = 253.1      SURFTENS = 0.2400E-01      SFTINTENS = 293.1      SFTINTENS = 293.1      SFTINTENS = 293.1      SFTINTENS = 293.1
      SOLUBPNT = 21.00      SOLUBTMP = 293.1      A = 6.342      B = 0.5000E-01      AVP = 9.880      AVCP = 0.1884E+05
      BVP = 1530.      CVP = 0.5000E-01      VPUPRBN = 373.1      VPUPRBN = 373.1      VPUPRBN = 373.1      VPUPRBN = 373.1
      BVCP = 154.9      CVCP = 0.0000E+00      OVCP = 0.0000E+00      VHCUPBN = 500.0      VHCUPBN = 500.0      VHCUPBN = 500.0
      HTFUSION = 154.9      LHTVAPOR = 0.5020E+06      HTCOMSTN = -0.2900E+08      HTDECOMP = 31.00      HTSOLUTN = 300.0
      HTREACTN = 0.1000      HTPOLYMR = -0.1200E+06(E)      LOFLMLIM = 2.800      UPFLMLIM = 31.00      BURNRATE = 0.6346E-04
      TOXINHAL = 0.1000      INHALCNC = 0.5000      INHALTME = 300.0      LOTOXLM = 300.0      UPTOXLM = 0.5000E-04(E)
      LAETOX = 0.1000      ABFLMTMP = 0.5000      MOLRATIO = 300.0      AIRFUEL = 300.0      FLMETEMP = 300.0
      MOLFRAC = 0.1000
*****

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ART  CHEMNAME = ARSENIC TRISULFIDE          PATHCODE = 11
MOLECWT = 246.0      NBP =      SHPSTATE=S      NFP = 573.0      CRITTEMP=
DENSITY = 3430.      DENSTEMP= 293.1      LDUPRBND=      ARHO =      BRHO =
CRHO =      LDUPRBND=      BVIS =      LVUPRBND=      LOVISPT=      LOVISTMP=
AVIS =      ACON =      LOHTCPTM=      SURFTENS=      INTFTMP=      LTCLOBND=
LTHCNTMP=      LOHTCPTM=      SOLUBTMP=      CVP =      AVP =      LTCLOBND=
LHCLOBND=      SURFTENS=      SOLUBTMP=      CVP =      AVCP =      LMCUPBND=
SOLUBPNT=      BVP =      BVCP =      LHTVAPOR=      HTSOLUTN=      LMCUPBND=
BVP =      BVCP =      LHTVAPOR=      HTPOLYMR=      UPFLMLIM=      BURNRATE=
HTFUSION=      TOXINHAL= 0.4560E-01      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
HTREACTN=      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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0.5000E-04(E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ASA  CHEMNAME = ARSENIC ACID  PATHCODE = SS

MOLEWT = 229.8  NBP =  DENSTMP= 293.1  CRITTEMP=
DENSITY = 2200.  LDUPRBN=  BVIS =  ACCN =  LQHTCPT=  LHCLOBND=  SOLUBPNT= 40.00  BVP =  BVCP =  HTFUSION=  HTREACTN=
CRHO =  LDUPRBN=  BVIS =  ACCN =  LQHTCPT=  LHCLOBND=  SOLUBPNT= 293.1  CVP =  CVCP =  LHTVAPOR=  HTPOLYMR=
AVIS =  LDUPRBN=  BVIS =  ACCN =  LQHTCPT=  LHCLOBND=  SOLUBPNT= 293.1  CVP =  CVCP =  LHTVAPOR=  HTPOLYMR=
LTHCNTMP=  LQHTCPT=  LHCLOBND=  SOLUBPNT= 293.1  CVP =  CVCP =  LHTVAPOR=  HTPOLYMR=
LQHTCPT=  LHCLOBND=  SOLUBPNT= 293.1  CVP =  CVCP =  LHTVAPOR=  HTPOLYMR=
LHCLOBND=  SOLUBPNT= 293.1  CVP =  CVCP =  LHTVAPOR=  HTPOLYMR=
SOLUBPNT= 40.00  BVP =  BVCP =  HTFUSION=  HTREACTN=
BVP =  BVCP =  HTFUSION=  HTREACTN=
BVCP =  HTFUSION=  HTREACTN=
HTFUSION=  HTREACTN=
HTREACTN=
TOXINHAL= 0.4900E-01  INHALCNC=  ABFLTMP=  MOLFRAC =
LAFETOX =  ABFLTMP=  MOLFRAC =
MOLFRAC =

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOSND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOSND=
HTSOLUTN= 7100.
BURNRATE=
UPTOXLIN= 0.5000E-04(E
FLMETEMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ASC  CHEMNAME = ANISOYL CHLORIDE      PATHCODE = A  O  X
MOLEWT = 171.6      NBP = 535.0      CRITTEMP = 295.0      CRITPRES =
DENSITY = 1260.      DENSTEMP = 293.1      SHPSRATE=L      ARHO = 1553.      (E) BRHO = -1.000      (E)
CRHO = 0.000E+00(E)      LOUPREND = 298.1      LOLWREND = 273.1      LOVISINT = 0.3400E-02(E)      LOVISTMP = 293.1
AVIS = -13.01      (E) BVIS = 2150.      (E) LVUPREND = 293.1      LVLWREND = 273.1      LOTHRCND = 0.1512      (E)
LTHCNTMP = 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND = 293.1      LTCLOBND = 273.1
LOHTCPPT = 1675.      (E) LOHTCPTM = 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E)      LHCUPBND = 298.1
LHCLOBND = 273.1      SURFTENS = 0.2500E-01(E)      SFTNTMP = 293.1      INTFTES = 10.11      (E)
SOLUBPNT = 273.1      SURFTMP = 293.1      A = 10.11      (E)
BVP = 2730.      (E) CVP = -0.1500      (E) VPUPREND = 533.1      VPLWREND = 473.1      AVCP = 10.11      (E)
BVCP = 2730.      (E) CVC = -0.1500      (E) VPUPREND = 533.1      VPLWREND = 473.1      AVCP = 10.11      (E)
HTFUSION = 2730.      (E) CVP = -0.1500      (E) VPUPREND = 533.1      VPLWREND = 473.1      AVCP = 10.11      (E)
HTREACTN = 2730.      (E) CVP = -0.1500      (E) VPUPREND = 533.1      VPLWREND = 473.1      AVCP = 10.11      (E)
TOXINHAL = 2730.      (E) CVP = -0.1500      (E) VPUPREND = 533.1      VPLWREND = 473.1      AVCP = 10.11      (E)
LAFETOX = 2730.      (E) CVP = -0.1500      (E) VPUPREND = 533.1      VPLWREND = 473.1      AVCP = 10.11      (E)
MOLFRAC = 2730.      (E) CVP = -0.1500      (E) VPUPREND = 533.1      VPLWREND = 473.1      AVCP = 10.11      (E)

```


MOLEWT =	178.1	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	2000.	DENSTEMP=	293.1	SHPSSTATE=S	BRHO =
CRHO =		LDUPREND=		LDLWREND=	LQVISTMP=
AVIS =		BVIS =		LVUPREND=	LQTHRCND=
LTHCNTMP=		ACON =		BCON =	LTCLOSND=
LQHTCPPT=		LQHTCPTM=		AHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTEMP=	INTFTTMP=
SOLUBPNT=	20.70	SOLUBTMP=	293.1	A =	AVP =
BVP =		CVP =		VPUPREND=	AVCP =
BVCP =		CVCP =		DVCP =	VHCLOBND=
HTFUSIGN=		LHTVAPOR=		HTCOYSTN=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	BURNRATE=
TOXINHAL=	0.3000	INHALCNC=		INHALTME=	UPTOXLIM=
LAFETOX =		ABFLWTMP=		MOLRATIO=	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ASP  CHEMNAME = ASPHALT

MOLECW = NBP = DENSTEMP = 298.2  PATHCODE = A T U X Y
DENSITY = 1080. (E) DENSTEMP = 298.2  SHPSTATE=L
CRHO = LDUPRND = LOLWRSD =  CRITTEMP =
AVIS = -8.040 (E) BVIS = 2140. (E) LVUPRSD = 473.0 (E) LVLRBND =  CRITPRES =
LTHCNTMP = 350.0 (E) ACON = 0.1400 (E) BCON = 0.0000E+00(E) LTCUPBND =  ARHO =
LQHTCPPT = 2000. (E) LOHTCPTM = 373.0 (E) AHC = 2000. (E) BHC =  LOVISPT = 0.7500E-01(E) LQVISTMP = 393.0 (E)
LHCLOBND = 300.0 (E) SURFTENS = 0.1000E 01(E) SFTNTMP = 350.0 (E) INTFTENS = 0.7000E-01(E) INTFTMP = 350.0 (E)
SOLUBPNT = SOLUBTMP = A = B =  AVP = 13.01 (E)
BVP = 4062. (E) CVP = 0.0000E+00(E) VPUPRSD = 470.0 (E) VPLWRSD = 370.0 (E) AVCP =
BVCP = CVCV = DVCV =  VHCLOBND =
HTFUSION = LHTVAPOR = HTCO:BTN = -0.3900E+08(E) HTDECOMP =  HTSOLUTN =
HTREACTN = HTPOLYMR = LOFLMLIM =  UPFLMLIM =  BURNRATE =
TOXINHAL = INHALCNC = INHALTME =  LOTOXLIM = 0.5000E-02  UPTOXLIM = 0.1500E-01
LATETOX = ABFLMTMP = MOLRATIO =  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ASR  CHEMNAME = ASPHALT BLEND STOCK:STRAIGHT RUN RESIQUE  PATHCODE = A  T  U

MOLECWT =      NBP      =      NFP      =      380.0  (E) CRITTEMP=      CRITPRES=
DENSITY =      DENSTEMP=      SHPSTATE=      ARHO      =      1100.  (E) BRHO      =      0.0000E+00(E)
CRHO      =      0.0000E+00(E) LDUPREND=      350.0  (E) LOLWRSNO=      300.0  (E) LOVISPLT=      0 7500E-01(E) LOVISTMP=      393.0  (E)
AVIS      =      -8.040  (E) BVIS      =      2140.  (E) LVUPPSNO=      473.0  (E) LVLWRB'D=      373.0  (E) LOTHRCND=      0.1400  (E)
LTHCNTMP=      350.0  (E) ACON      =      0.1400  (E) BCCN      =      0.0000E+00(E) LTCUPBNO=      400.0  (E) LTCLOBND=      350.0  (E)
LOHTCPPT=      2000.  (E) LOHTCPTM=      373.0  (E) AHC      =      2000.  (E) SHC      =      0.0000E+00(E) LHCUPBNO=      400.0  (E)
LHCLOBND=      300.0  (E) SURFTENS=      0.1000E-01(E) SFTNTEMP=      350.0  (E) INTFTENS=      0.7000E-01(E) INTFTTMP=      350.0  (E)
SOLUBPNT=      SOLUSTMP=      A      =      B      =      AVP      =      13.01  (E)
BVP      =      4062.  (E) CVP      =      0.0000E+00(E) VPUPRSNO=      470.0  (E) VPLWRS'D=      370.0  (E) AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAFOR=      HTCON'STN=      -0.3900E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLIMLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTHE=      LOTOXLIM=      0.5000E-02  UPTOXLIM=      0.1500E-01
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

AST  CHEMNAME = ARSENIC TRICHLORIDE          PATHCODE = A  0

MOLECWT = 181.3      NBP      = 403.0      NFP      = 260.0      CRITTEMP=
DENSITY = 2160.      DENSTEMP= 293.1      SHPSSTATE=L      CRHO      = 2453.      (E) BRHO      = -1.000      (E)
CRHO      = 0.0000E+00(E) LDUPREND= 298.1      LDUPREND= 273.1      LOVISPT= 0.5800E-02(E) LOVISTMP= 293.1
AVIS      = -18.81      (E) BVIS      = 4000.      (E) LVUPREND= 298.1      LVLWRBND= 283.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON      = 0.1512      (E) BCON      = 0.0000E+00(E) LTCUPBND= 293.1      LTCLOBND= 273.1
LOHTCPPT= 1675.      (E) LOHTCPTM= 293.1      AHC      = 1675.      (E) EPC      = 0.0000E+00(E) LHCUPEND= 298.1
LHCLOBND= 273.1      SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 10.24      (E)
BVP      = 2110.      (E) CVP      = -0.1500      (E) VPUPREND= 403.1      VPLWRBND= 283.1      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSCN=      LHTVAPOR=      HTCOVSTN=      HTDECCRP=      HTSOLUTN= -0.4200E+05(E)
HTREACTN=      HTPOLYMR=      LGFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.6200E-01      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      FLMETEMP=
MOLFRAC =
  
```


ATC	CHEMNAME = ALLYLTRICHLOROSILANE	PATHCODE = A	O
MOLEWT =	175.5	NBP =	389.0
DENSITY =	1215.	OENSTMP =	293.1
CRHO =	0.0000E+00(E)	LDUPRENO =	303.1
AVIS =	-12.91	(E) BVIS =	2100.
LTHCNTMP =	293.1	ACON =	0.1512
LQHTCPPT =	2093.	(E) LQHTCPTM =	293.1
LHCLOBND =	273.1	SURFTENS =	0.2000E-01(E)
SOLUBPNT =		SOLUSTMP =	
BVP =	2051.	CVP =	0.5000E-01
BVCP =	0.0000E+00(E)	CVCP =	0.0000E+00(E)
HTFUSION =		LHTVAPOR =	0.2300E+06
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAETOX =		ABFLMTMP =	
MOLFRAC =			

CRITPRES =		CRITTEMP =	
(E) BRHO =	-1.000	ARHO =	1508.
LOVISTMP =	293.1	LOVISPT =	0.3200E-02(E)
LOTHRCND =	0.1512	LVLWES'D =	273.1
LTCLOBNO =	273.1	LTCUES'D =	303.1
LHCUPBND =	303.1	(E) EPC =	0.0000E+00(E)
INTFTTMP =		INTFIENS =	293.1
AVP =	10.28		
AVCP =	0.1047E+06(E)	VPLWES'D =	388.1
VHCLOBND =	300.0	VHCUPB'D =	0.0000E+00(E)
HTSOLUTN =		HTDECOMP =	-0.1200E+08(E)
BURNRATE =	0.3674E-04	UPFLWLIN =	
UPTOX LIM =	0.5000E-03	LOTOXLIM =	0.5000E-04
FLMETEMP =		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ATF  CHEMNAME = AMMONIUM THIOSULFATE      PATHCODE = A  P  SS
MOLEWT = 148.2      NBP =                CRITTEMP=
DENSITY = 2000.      OENSTEMP= 293.1      ARHO =
CRHO =              LDUPRND=              LOVISPT=
AVIS =              BVIS =                LVLWRBND=
LTHCNTWP=          ACON =                LTCUPBND=
LQHTCPPT=          LOHTCPTM=              EHC =
LHCLOBNO=          SURFTENS=              INTFTENS=
SOLUBPNT=          SOLUBTMP=              B =
BVP =              CVP =                  VPLWRBND=
BVCP =              CVCP =                VHCUPBND=
HTFUSION=          LHTVAPOR=              HTDECON=
HTREACTN=          HTPOLYMR=              UPFLMLIM=
TOXINHAL=          INHALCNC=              LOTOXLIM=
LATETOX =          ABFLMTMP=              AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LOVISIMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PATHCODE = 11

MOLECWT =	178.2	NBP	=	614.4	NFP	=	489.7	CRITTEMP=	CRITPRES=
DENSITY =	1240.	OENSTEMP=	293.1	SHPSTATE=S	APHC	=		BRHO	=
CGRHO	=	LDUPREND=		LDLWPSND=	LOVISPT=			LOVISTMP=	
AVIS	=	BVIS	=	LVPURSD=	LVLWRBD=			LQTHRCND=	
LTHCNTMP=		ACON	=	BCON	LTCUPBD=			LTCLOBND=	
LQHTCPPT=		LQHTCPTM=		AHC	EHC	=		LHCUPBND=	
LHLCLOBND=		SURFTENS=		SFTNTEMP=	INTFELS=			INTFTTMP=	
GOLUBPNT=		SOLUBTMP=		A	B	=		AVP	=
BVP	=	CVP	=	VPUPRSND=	VPLWRBD=			AVCP	=
BVCV	=	CVCV	=	DVCV	VHCLPRD=			VHCLOBND=	
HTEFUSION=		LHTVAPOR=		HTCOMSTN=	-0.39BOE+08			HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLWLIM=				BURNRATE=	
TOXINHAL=		INHALLCNC=		INHALLTME=				UPTOXLIM=	
LAFETOX	=	ABFLMTMP=		MOLRATIO=				FLMETEMP=	
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ATM  CHEMNAME = ANTIMONY TRICHLORIDE          PATHCODE = RR
MOLECWT = 228.0      NBP = 495.0      NFP = 346.0      CRITPRES=
DENSITY = 3140.      DENSTEMP= 293.1      SHPSIATE=S      BRHO =
CRHO =              LDUPRND=              LDWRBND=      LOVISPT=
AVIS =              BVIS =              LVUPRND=      LOTHRCND=
LTHCNTMP=          ACON =              BCON =      LTCLOBND=
LQHTCPPT=          LQHTCPTM=          AHC =      LHCUPRND=
LHCLOBND=          SURFTENS=          SFTNTEMP=      INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =      AVP = 10.53
BVP = 2729.      CVP = -0.1500      VPUPRND= 443.1      AVCP =
BVCP =          CVCP =          DVCP =      VPLWRBND= 383.1
HTFUSION=          LHTVAPOR=          HTCONSTN=      VHCUPRND=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      HTDECOMP=
TOXINHAL= 0.4900E-01      INHALCNC=          INHALTME=      UPFLMLIN=
LATETOX =          ABFLMTMP=          MOLRATIO=      LOTCXLIN=
MOLFRAC =            

CRITTEMP=          CRITPRES=          HFSOLUTN= -0.1600E+06
BURNRATE=          UPTOXLIM=          FLMETEMP=

```


PATHCODE = A P

ATN	CHEMNAME = ACETONITRILE				P A T H C O D E = A P Q R S		
MOLECW	= 41.05	NBP	= 354.8	NFP	= 227.5	CRITTEMP=	547.9
DENSITY	= 787.0	DENSTEMP=	293.2	SHPSTATE=L		AHQO	= 1094.
CRHO	= -0.1400E-03	LQUPRBND=	353.2	LDLWREND=	228.2	LOVISDPT=	LOVISTMP=
AVIS	=	BVIS	=	LVLPREND=		LVLWRBND=	LOTHRCND=
LTHCNTMP=		ACON	=	BCON	=	LTCUPBND=	LTCLOBND=
LQHTCPT=	2261.	LQHTCPTM=	293.2	AHC	= 2261.	BHC	= 0.0000E+00
LHCLOBAO=	283.2	SURFTENS=		SFTNTMP=		INTFTELS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A	=	B	= 9.198
BVP	= 1279.	CVP	= -49.16	VPUPREND=	383.2	VPLWRBND=	AVCP
BVCP	= 119.7	CVCP	= -0.4480E-01	DVCP	= -0.3224E-05	VHCUPBND=	258.2
HTFUSION=	0.2177E+06	LHTVAPOR=	0.7285E+06	HTCORBTN=	-0.3107E+08	HTDECOBP=	250.0
HTREACTN=		HTPOLYMR=		LOFLMLIN=	4.400	HTSOLUTN=	16.00
TOXINHAL=	40.00	INHALLCNC=		INHALTME=		LOTCLIM=	0.5000E-04
LARETOX	=	ABFLMTMP=		MOLRATIC=		AIRFUEL	=
MOLFRAC	=						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ATO CHEMNAME = ARSENIC TRIOXIDE PATHCODE = II SS

MOLEWT = 197.8	NBP = 730.0	NFP = 588.0	CRITTEMP =	CRITPRES =
DENSITY = 3700.	DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LOLWREND =	LQVISINT =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWREND =	LQTHRCND =
LTHCNTMP =	ACON =	BCCN =	LTCUPBND =	LTCLOBNO =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBNO =
LHCLQBNO =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 2.000	SOLUBTMP = 298.1	A = -18.87	B = 0.7000E-01	AVP =
BVP =	CVP =	VPUPREND =	VPLWREND =	AVCP =
BVCP =	CVCP =	OVCP =	VHCUPBND =	VHCLOBNO =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTOECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIN =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-04(E
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S: SYSTEM OF UNITS

ATR CHEMNAME = AMMONIUM TARTRATE PATHCODE = SS

MOLEWT = 184.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1600.	OENSTEMP = 298.1	SHPSRATE = S	BRHO =	BRHO =
CRHD =	LDUPREND =	LDLWREND =	LOVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBD =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPEND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 63.00	SOLUBTMP = 293.1	A = -200.8	B = 0.9000	AVP =
BVP =	CVP =	VPUPREND =	VPLWRBD =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPEND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOHSTN =	HTDECORP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ATS      CHEMNAME = N-AMYLTRICHLOROSILANE      PATHCODE = A  O
MOLEWT = 205.6      NBP = 433.0
DENSITY = 1137.      DENSTEMP = 298.1      SHPSTATE=L
CRHO = 0.0000E+00(E) LOUPRNO = 298.1      LDLWBSND = 283.1
AVIS = -18.81      (E) 8VIS = 4000.      (E) LVUPRNO = 298.1      LVLWRSND =
LTHCNTNP = 298.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND =
LOHTCPPT = 1884.      (E) LOHTCPTM = 298.1      AHC = 635.8      (E) BHC =
LHCLOBNO = 283.1      SURFTENS = 0.2000E-01(E) SFTNTMP = 293.1      INTFTENS =
SOLUBPNT =          SOLUBTMP =          A =          B =
BVP = 1431.      (E) CVP = -0.1500      (E) VPUPRNO = 433.1      VPLWRSND =
BVCP =          CVCP =          DVCP =          VHCUPBND =
HTFUSION =          LHTVAPOR = 0.2020E+06(E) HTCOMSTN = -0.1540E+08(E) HTDECOMP =
HTREACTN =          HTPOLYMR =          LOFLMLIM =
TOXINHAL =          INHALCNC =          INHALTME =          LOTOXLIM =
LAFETOX =          ABFLMTMP =          MOLRATIO =          AIRFUEL =
MOLFRAC =
CRITPRES =          (E) BRHO = -1.000      (E)
1435.      0.5700E-02(E) LOVISTMP = 293.1
283.1      LQTHRCNO = 0.1512      (E)
298.1      LTCLOBND = 283.1
4.187      (E) LHCUPBNO = 298.1
INTFTIMP =
AVP =          = 8.310      (E)
AVCP =          =
VHCLOBNO =
HTSOLUTN = 0.4000E+06(E)
BURNRATE = 0.4175E-04
UPTOXLIM = 0.5000E-04
FLMETEMP =

```

PATHCODE = SS

MOLECWt =	178.8	=	NBP	=	565.0	CRITTEMP=	CRITPRES=
DENSITY =	4380.	=	DENSTEMP=	294.2	=	SHSTATE=S	BRHO =
CRHO =		=	LOUPRBN=		=	LDLWPSND=	LOV1STMP=
AVIS =		=	BVIS =		=	LVUFRSND=	LOTHRCND=
LTHCNTMP=		=	ACON =		=	BCON =	LTCLOSNO=
LQHTCPPT=		=	LOHTCPTM=		=	AHC =	LHCUPBND=
LHCLOBND=		=	SURFTENS=		=	SFTNTMP=	INTFTMP=
SOLUBPNT=		=	SOLUBTMP=		=	A =	AVP =
BVP =		=	CVP =		=	VPUPRBN=	AVCP =
BVCP =		=	CVCP =		=	OVCP =	VHCLOBNO=
HTFUSCN=		=	LHTVAPOR=		=	HTCOMPSTN=	HTSOLUTN=
HTREACTN=		=	HTPOLYMR=		=	LOFLMLIM=	BURNRATE=
TOXINHAL=	0.6270E-01	=	INHALCNC=		=	INHALTME=	UPTOXLIM=
LATEFOX =		=	ABFLMTMP=		=	MOLRATIO=	FLMETEMP=
MOLFRAC =		=			=		

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

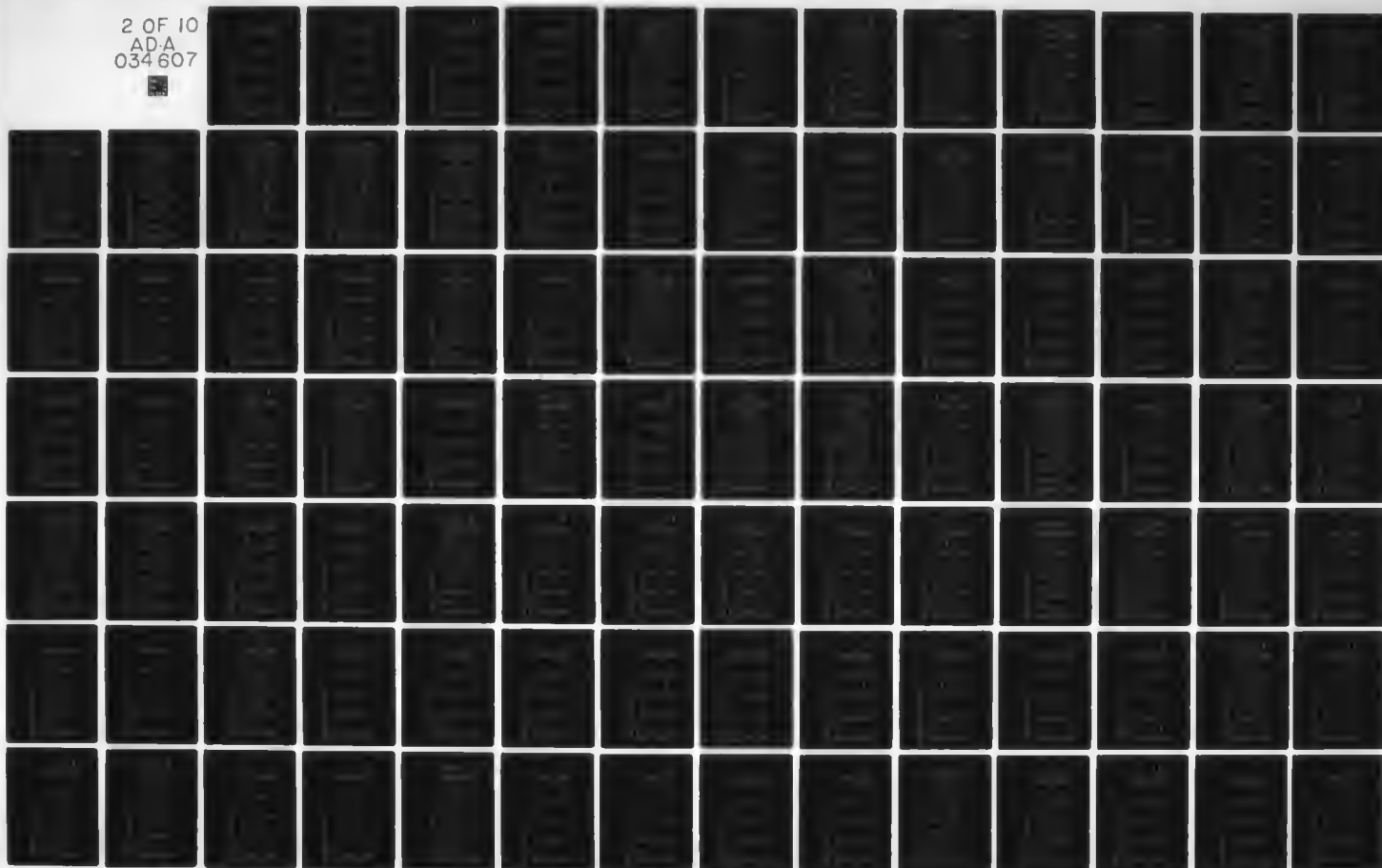
F/G 7/2

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USCG-D-124-76

DOT-CG-24655-A
NL

2 OF 10
AD-A
034 607



 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI. SYSTEM OF UNITS

ATX CHEMNAME = ANTIMONY TRIOXIDE PATHCODE = 11

MOLEWT = 291.5	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 5200.	OENSTEMP = 298.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LOUPRENO =	LOLWREND =	LQVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWREND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	SHC =	LHCUPENO =
LHCLOBNO =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPREND =	VPLWREND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPEND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOVSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.3800E-01	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ATZ CHEMNAME = ATRAZINE

PATHCODE = 11

MOLEWT = 215.7	NBP =	NFP = 348.0	CRITPRES=
DENSITY = 1200.	(E) OENSTEMP= 293.1	SHPSSTATE=S	BRHO =
CRHO =	LDUPRNO=	LDLWRND=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPPT=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTIMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPRND=	AVCP =
BVCP =	CVCP =	QVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.2200E+08(E)	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM= 0.500DE-03
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

0.500DE-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AZM CHEMNAME = AZINPHOSMETHYL

PATHCODE = 11

MOLECW = 317.0	NBP =	NFP = 346.0	CRITTEMP =	CRITPRES =
DENSITY = 1400.	DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LOUPRBN =	LOLRBN =	LOVISPT =	LOVISIMP =
AVIS =	BVIS =	LVUPRBN =	LVLWRBN =	LOTHRCNO =
LTHCNTMP =	ACON =	SCON =	LTCUPBN =	LTCLOBNO =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBN =
LHCLOBNO =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 0.3100E-02	SOLUBTMP = 293.1	A = -0.3501E-01	B = 0 1300E-03	AVP =
BVP =	CVP =	VPUPRBN =	VPLWRBN =	AVCP =
BVCP =	CVCP =	OVCP =	VHCUPBN =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONGTN = -0.2000E+08	HTDECCMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLM =	UPFLWLM =	BURNRATE =
TOXINHAL = 0.1400E-01	INHALCNC =	INHALIME =	LOTOXLM =	UPTOXLM = 0.5000E-04(E
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BAC CHEMNAME = BORIC ACID PATHCODE = II SS

MOLECWT = 61.83	NBP =	CRITTEMP =	CRITPRES =
DENSITY = 1510.	DENSTEMP = 287.1	ARHO =	BRHO =
CRHO =	LDUPRND =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVLWRBD =	LOTHRCND =
LTHCNTMP =	ACON =	LTCUPBD =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	INTFTENS =	INTFTTMP =
SOLUBPNT = 4.900	SOLUBTMP = 293.1	A = -27.35	AVP = 0.1100
BVP =	CVP =	VPUPRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOYSTN =	HTSOLUTN = -0.3700E+06
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL = 3.625	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-04(E
LAFETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BAD  CHEMNAME = ISO-BUTYRALDEHYDE                                PATHCODE = A  P  O
      MOLECW = 72.11      NBP = 327.3      NFP = 193.0      CRITTEMP = 513.0      CRITPRES = 0.4200E+07
      DENSITY = 791.0      DENSTEMP = 293.2      SHPSSTATE=L      ARHO = 1112.      BRHO = -1.100
      CRHO = 0.0000E+00      LDUPREND = 333.2      LOLWRBND = 273.2      LOVISPT = 0.4200E-03(E)      LOVISTMP = 293.0 (E)
      AVIS = -10.64 (E)      BVIS = 838.0 (E)      LVUPRND = 313.0 (E)      LVLWRBND = 233.0 (E)      LOTHRCNO = 0.1450 (E)
      LTHCNTMP = 293.0 (E)      ACON = 0.2130 (E)      BCON = -0.2300E-03(E)      LTCUPBND = 333.0 (E)      LTCLOBND = 223.0 (E)
      LOHTCPPT = 2176. (E)      LOHTCPTM = 293.0 (E)      AHC = 1564. (E)      EHC = 2.09D (E)      LHCUPBND = 303.0 (E)
      LHCLOBND = 223.0 (E)      SURFTENS = 0.2500E-01(E)      SFTNTMP = 293.0 (E)      INTFTENS = 0.5500E-01(E)      INTFTMP = 293.0 (E)
      SOLUBPNT = 6.500      SOLUBTMP = 293.2      A = 0      B = 0      AVP = 9.069
      BVP = 1163.      CVP = -51.16      VPUPRNO = 373.2      VPLWRBND = 273.2      AVCN = 5024.
      BVCP = 362.2      CVCP = -0.1633      OVCP = 0.1381E-04      VHCUPBND = 500.0      VHCLOBND = 250.0
      HTFUSIGN = 0.4103E+06      HTCVAPOR = 0.4103E+06      HTCOMBNTN = -0.3221E+08      HTOECOMB = 0.8000E-04
      HTREACTN = 0.4103E+06      HTPOLYMR = 0.4103E+06      LOFLMLIM = 2.000      UPFLMLIM = 10.00      BURNRATE = 0.8000E-04
      TOXINHAL = 0.4103E+06      INHALCNC = 0.4103E+06      INHALTME = 0.4103E+06      LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
      LAETOX = 0.4103E+06      ABFLMTMP = 0.4103E+06      MOLRATIO = 0.4103E+06      AIRFUEL = 0.4103E+06      FLMETEMP = 0.4103E+06
      MOLFRAC = 0.4103E+06

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PATHCODE = A T U Z

[illegible]

PATHCODE = A P T X

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BAM  CHEMNAME = N-BUTYLAMINE
      MOLECW = 73.14  NBP = 350.6  PATHCODE = A P Q R S
      DENSITY = 740.0  DENSTEMP = 293.1  SHPSTATE=L  CRITTEMP = 524.0  CRITPRES = 0.4160E+07
      CRHO = 0.0000E+00(E)  LDUPREND = 273.1  LDUPREND = 273.1  LOVISPRT = 0.6800E-03  LOVISTMP = 298.1  (E) BRHO = -1.000  (E)
      AVIS = -11.72  (E) BVIS = 1320.  (E) LVUPREND = 298.1  LVLWRBND = 283.1  LOTHRCND = 298.1  LTCLOBND =
      LTHCNTMP = 2010.  (E) LOHTCPTM = 293.1  AHC = 2010.  (E) B1C = 0.0000E+00(E)  LHCUPBND = 298.1  INTFTMP =
      LHCLOBND = 288.1  SURFTENS = 0.5311E-01  SFTNTEMP = 293.1  INTFTENS = 9.061  AVP = 0.2500E+05(E)
      SOLUBPNT = 1210.  CVP = -52.30  VPUPREND = 353.1  VPLWRBND = 273.1  AVCP = 250.0  VHCLOBND =
      BVCP = 389.0  (E) CVCP = -0.1576  (E) DVCP = 0.6753E-05(E)  VHCUPBND = 600.0  HTSOLUTN =
      HTFUSIGN = 0.4200E+06  HTCOWSTN = -0.4090E+08  HTOECOMP = 9.800  BURNRATE = 0.9669E-04
      HTPOLYMR = 5.000  INHALCNC = 5.000  LOFLMLIM = 1.700  UPFLMLIM = 0.5000E-04  UPTOXLIM = 0.5000E-03
      TOXINHAL = 5.000  INHALTIME = 300.0  INHALTME = 300.0  LOTOXLIM = 0.5000E-04  FLMETEMP =
      LATETOX = 5.000  ABFLMTMP = 5.000  MOLRATIO = 300.0  AIRFUEL =
      MOLFRAC = 5.000

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BAN  CHEMNAME = N-BUTYL ALCOHOL      PATHCODE = A  P  O
MOLEWT = 74.12      NBP = 390.9      NFP = 183.9      CRITTEMP= 563.0      CRITPRES= 0.4412E+07
DENSITY = 810.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 988.6      BRHO = -0.5152
CRHO = -0.3200E-03      LOUPRBND= 333.2      LDLPBND= 263.2      LOVISINT= 0.2770E-02      LOVISTMP= 295.2
AVIS = -13.72      BVIS = 2311.      LVUPRBND= 353.2      LVLWRBND= 283.2      LQTHRCND= 0.1524
LTHCNTMP= 293.2      ACON = 0.2142      BCON = -0.2093E-03      LTCUPBND= 363.2      LTCLOBND= 283.2
LOHTCPPT= 2328.      LOHTCPTM= 293.2      AHC = -863.4      BHC = 10.89      LHCUPBND= 353.2
LHCLOBND= 283.2      SURFTENS= 0.2460E-01      SFTNTMP= 293.2      INTFTENS= 0.5600E-01(E)      INTFTTMP= 300.0 (E)
SOLUBPNT= 7.800      SOLUBTMP= 293.2      A = 8      B = 12.24
BVP = 2778.      CVP = 0.4004E-01      VPUPRBND= 343.2      VPLWRBND= 283.2      AVCP = 0.1926E+05
EVCP = 351.7      CVCP = -0.1675      DVCP = 0.3056E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION= 0.1252E+06      LHTVAPOR= 0.5945E+06      HTCOMBNTN= -0.3310E+08      HTSOLUTN= -0.1000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.400      UPFLMLIM= 11.20      BURNRATE= 0.5333E-04
TOXINHAL= 100.0      INHALCNC= 150.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BAS CHEMNAME = SEC-BUTYL ALCOHOL

PATHCODE = A P O

MOLEWT = 74.12	NBP = 372.7	NFP = 158.5	CRITTEMP= 536.0	CRITPRES= 0.4193E+07
DENSITY = 807.0	DENSTEMP= 293.2	SHPSSTATE=L	ARHO = 1101.	BRHO = -1.0000
CRHO = 0.0000E+00	LDUPRBND= 323.2	LDLWRBND= 273.2	LOVISPT= 0.3630E-02	LOVISTMP= 293.2
AVIS = -12.96	BVIS = 2150.	LVUPRBND= 353.2	LVLWRBND= 273.2	LQTHRCND= 0.1477
LTHCNTMP= 293.2	ACON = 0.2500	BCON = -0.3489E-03	LTCUPBND= 313.2	LTCLOBND= 263.2
LOHTCPPT= 2407.	LOHTCPTM= 293.2	AHC = 689.0	BHC = 5.862	LHCUPBND= 313.2
LHCLOBND= 253.2	SURFTENS= 0.2300E-01	SFTNTMP= 293.2	INTFTENS= 0.5800E-01(E)	INTFTTMP= 300.0 (E
SOLUBPNT= 20.00	SOLUBTMP= 293.2	A =	B =	AVP = 9.819
BVP = 1414.	CVP = -79.16	VPUPRBND= 373.2	VPLWRBND= 273.2	AVCP = 0.1214E+05
BVCP = 406.1	CVCP = -0.2219	DVCP = 0.4605E-05	VHCLPBND= 500.0	VHCLQBND= 250.0
HTFUSION=	LHTVAPOR= 0.5652E+06	HTCONSTN=	HTDECCRP=	HTSOLUTN= -0.1000E+05(E
HTREACTN=	HTPOLYMR=	LOFLWLIM= 1.700	UPFLMLIM= 9.000	BURNRATE= 0.5167E-04
TOXINHAL= 150.0	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-02	UPTOXLIM= 0.1500E-01
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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BAT  CHEMNAME = TERT-BUTYL ALCOHOL      PATHCODE = A  P  O  R  S
MOLECWT = 74.12      NBP      = 355.8      NFP      = 298.9      CRITTEMP= 506.0      CRITPRES= 0.3970E+07
DENSITY = 780.0      DENSTEMP= 299.2      SHPSSTATE=L      ARHO      = 1060.      BRHO      = -0.9400
CRHO      = 0.0000E+00      LDUPREND= 323.2      LDLRBND= 298.2      LQVISPNT= 0.3000E-02      LQVISTMP= 305.2
AVIS      = -18.46      BVIS      = 3861.      LVUPREND= 353.2      LVLARBND= 298.2      LQTHRCND= 0.1128
LTHCNTMP= 293.2      ACON      = 0.1469      BCON      = -0.1163E-03      LTCUPBND= 353.2      LTCLOBND= 263.2
LQHTCPPT= 3014.      LQHTCPTM= 298.2      AHC      = -730.5      BHC      = 12.56      LHCUPBND= 353.2
LHCLOBND= 298.2      SURFTENS= 0.2070E-01      SFTNTEMP= 298.2      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      = 11.67
BVP      = 2360.      CVP      = 0.4004E-01      VPUPREND= 343.2      VPLWRBND= 298.2      AVCF      = B37.4
BVCP      = 452.2      CVCP      = -0.2638      DVCP      = 0.5862E-04      VMCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION= 0.9169E+05      LHTVAPOR= 0.5443E+06      HTCONBTN= -0.3257E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.350      UPFLMLIM= 8.000      BURNRATE= 0.5667E-04
TOXINHAL= 100.0      INHALCNC= 150.0      INHALTIME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BBP CHEMNAME = BENZYL N-BUTYL PHTHALATE

$$\text{PATHCOOE} = \text{A} \times \text{X}$$

MOLEWT =	313.0	NBP	=	643.0	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	1120.	DENSTEMP=		293.1	SHPSTATE=L		ARHC	(E) BRHO = -1.000
CRHO	=	0.0000E+00(E)	LOUPRENO=	303.1	LWLWRBND=	283.1	LOVISPHI=	LOVISTMP= 293.1
AVIS	=	-14.80	BVIS	=	3264.	LVUPRENO=	363.1	LOTHRCND= 0.1512
LTHCNTMP=	293.1	ACON	=	0.1512	(E) BCQN	=	0.0000E+00(E)	LTCLOBND= 283.1
LOHTCPT=	2093.	(E) LOHTCPTM=		293.1	AHC	=	2093.	(E) BHC
LHCLOBND=	283.1	SURFTENS=			SFTNTEMP=		INTFTEIS=	INTFTTMP=
SOLUBPNT=	0.3000E-03	SOLUBTMP=		303.1	A	=	B	AVP = 12.06
BVP	=	4540.	CVP	=	-0.1500	VPUPRBNO=	643.1	VPLWRBND= 423.1
BVCP	=		CVCP	=		OVCPC	=	VHCUPBND= VHCLOBNO=
HTFUSION=		LHTVAPOR=			HTCOMBTN=	-0.3380E+08	HTDECOFF=	HTSOLUTN=
HTREACTN=		HTPOLYMR=			LOFLALIM=		LPFLMLIN=	BURNRATE=
TOXINHAL=		INHALLCNC=			INHALTME=		LOTOXLIM=	UPTOXLIM=
LARETOX	=	ABFLMTMP=			MOLRATIO=		AIRFUEL	= FLMETEMP=
MOLFRAC	=							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BBZ CHEMNAME = BROMOBENZENE

PATHCODE = A X Y

MOLEWT = 157.0	NBP = 429.0	NFP = 242.6	CRITTEMP = 670.0	CRITPRES = 0.4520E+07
DENSITY = 1490.	DENSTEMP = 298.1	SHPSTATE=L	ARHO = 1902.	BRHO = -1.400
CRHO = 0.0000E+00	LDUPREND = 373.1	LOLWREND = 273.1	LOVISINT = 0.1160E-02	LOVISTMP = 293.1
AVIS = -10.85	BVIS = 1200.	LVUPREND = 373.1	LVLWREND = 278.1	LOTHRCND = 0.1116
LTHCNTMP = 293.1	ACON = 0.1271	BCON = -0.5234E-04	LTCUFEND = 373.1	LTCLOBNO = 273.1
LOHTCPPT = 1005.	LOHTCPTM = 293.1	AHC = 619.9	BHC = 1.256	LHCUPEND = 373.1
LHCLOBND = 273.1	SURFTENS = 0.3600E-01	SFTINTMP = 293.1	INTFTENS = 0.3000E-01(E)	INTFTTMP = 293.1
SOLUBPNT = 0.5000E-01	SOLUBTMP = 303.1	A = -0.1530	B = 0.6700E-03	AVP = 10.10
BVP = 2186.	CVP = -0.1500	VPUPREND = 443.1	VPLWREND = 283.1	AVCP = 0.1750E+05
BVCP = 273.4	CVCP = 0.0000E+00	OVCP = 0.0000E+00	VHCUPEND = 500.0	VHCLGBND = 250.0
HTFUSION =	LHTVAPOR = 0.2400E+06	HTCONSTN = -0.1900E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLWLIM =	BURNRATE = 0.6346E-04
TOXINHAL =	INHALCNC =	INHALTME =	LOTXCLIM =	UPTOXLIM =
LATETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

MOLECW	170.6	NBP	=	425.0	NFP	=	CRITTEMP=	CRITPRES=	
DENSITY	1220.	OENSTEMP	=	293.1	SHPSSTATE=L	=	ARHC	=	1473. (E) BRHO = -1.000 (E)
CRHO	=	0.0000E+00(E)	LDUPREND=	298.1	LDLWRSND=	283.1	LOVISPAT=	0.2570E-02	LOVISTMP= 293.1
AVIS	=	-12.11 (E)	BVIS	=	1800. (E)	LVUPRSD=	303.1	LVLWRBIC=	283.1
LTHCNTMP	=	293.1	ACON	=	0.1512 (E)	BCON	=	0.0000E+00(E)	LTCUPBIC= 293.1
LOHTCPT	=	1884. (E)	LOHTCPTM=	293.1	AHC	=	1884. (E)	BHC	=
LHCLOBND	=	283.1	SURFTENS=	0.2500E-01(E)	SFTNTMP=	293.1	INTFTENS=	INTFTTMP=	
SOLUBPNT	=		SOLUBTMP=		A	=	B	=	17.12 (E)
BVP	=	5150. (E)	CVP	=	-0.1500 (E)	VUPRPSNO=	423.1	VPLWRSIC=	373.1
BVCP	=	0.0000E+00(E)	CVCP	=	0.0000E+00(E)	OVCP	=	0.0000E+00(E)	VHCUPBIC= 350.0
HTFUSIGN	=		LHTVAPOR=	0.2100E+06(E)	HTCWSTN=	-0.2400E+08(E)	HTDECOMP=	HTSOLUTN=	
HTREACTN	=		HTPOLYMR=		LOFLMLIM=			BURNRATE=	0.6680E-04
TOXINHAL	=		INHALCNC=		INHALTME=			UPTOXLIM=	0.5000E-03
LATETOX	=		ABFLMTMP=		MOLRATIO=			AIRFUEL	=
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BCI  CHEMNAME = BENZYL CHLORIDE
      MOLEWT = 126.6      NBP = 452.6      NFP = 234.0      CRITTEMP= 684.0      (E) CRITPRES= 0.3910E+07(E)
      DENSITY = 1100.      DENSTEMP= 298.1      SHPSTATE=L      APHO = 1458.      BRHO = -1.200
      CRHO = 0.0000E+00      LDUPRENO= 373.1      LDLPEND= 273.1      LOVISPT= 0.1380E-02      LOVISTMP= 293.1
      AVIS = -11.12      BVIS = 1330.      LVUPRND= 353.1      LVLWRB:D= 283.1      LQTHRCND= 0.1303
      LTHCNTMP= 293.1      ACON = 0.1441      BCON = -0.4652E-04      LTCURB:D= 373.1      LTCLOBND= 273.1
      LQHTCPPT= 1369.      LQHTCPTM= 293.1      AHC = 962.4      EHC = 1.382      LHCUPEND= 373.1
      LHCLOBND= 273.1      SURFTENS= 0.3750E-01      SFTNTMP= 293.1      INTFTENS= 0.3000E-01(E)      INTFTTMP= 293.1
      SOLUBPNT= 0.3300E-02      SOLUBTMP= 298.1      A = 10.19      B = 10.19
      BVP = 2360.      CVP = -0.1500      VPUPRND= 453.1      VPLWRBND= 293.1      AVCP = 0.2550E+05
      BVCP = 352.9      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCURB:D= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.2900E+06      HTCCSTN= -0.2800E+08      HTDECOP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLTLIM= 1.100      UPFLMLIM=      BURNRATE= 0.7014E-04
      TOXINHAL= 1.000      INHALCNC=      INHALTIME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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BCN	CHEMNAME = N-BUTYL ACETATE	PATHCODE = A	T	U
MOLEWT =	116.2	NBP =	399.0	
OENSITY =	875.0	OENSTEMP =	293.2	
CRHO =	0.0000E+00	LOUPREND =	323.2	
AVIS =	-10.19	BVIS =	870.0	
LTHCNTMP =	293.2	ACON =	0.2129	
LOHTCPPT =	1922.	LOHTCPTM =	293.2	
LHCLOBND =	273.2	SURFTENS =	0.2400E-01	
SOLUBPNT =	1.000	SOLUBTMP =	293.2	
BVP =	2070.	CVP =	0.4004E-01	
BVCP =	502.4	CVCP =	-0.1926	
HTFUSION =		LHTVAPOR =	0.3094E+06	
HTREACTN =		HTPOLYMR =		
TOXINHAL =	150.0	(E) INHALCNC =	300.0	
LATETOX =		ABFLMTMP =		
MOLFRAC =				
		NFP =	199.7	
		SHPS:ATE=L		
		LDLWRBNO =	273.2	
		LVUPRBNNO =	333.2	
		BCON =	-0.2559E-03	
		AHC =	1247.	
		SFTN:EMP =	293.2	
		A		
		VPUPRBNNO =	323.2	
		OVCP =	0.3475E-05	
		HTCO:STN =	-0.3054E+08	
		LOFLMLIM =	1.700	
		INHALTME =	1800.	
		MOLRATIO =		
		CRITTEMP =	579.1	
		ARHO =	1168.	
		LOVISPNT =	0.6930E-03	
		LVLRBND =	283.2	
		LTCURBND =	363.2	
		BHC =	2.303	
		INTFTENS =	0.5700E-01(E)	
		B		
		AVP =	10.18	
		AVCP =	0.2152E+05	
		VHCLOBND =	250.0	
		HTSOLUTN =		
		BURNRATE =	0.7333E-04	
		UPTOXLIM =	0.5000E-02	
		FLMETEMP =		
		CRITPRES =	0.3100E+07	
		BRHO =	-1.0000	
		LQVISTMP =	298.2	
		LOTHRCND =	0.1372	
		LTCLOBND =	283.2	
		LHCUPBNO =	333.2	
		INTFTIMP =	295.0	(E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

BCP  CHEMNAME = BOILER COMPOUND, LIQUID      PATHCODE = A  P
MOLEWT =      NBP = 377.0 (E) NFP =      CRITTEMP=      CRITPRES=
DENSITY = 1480.  OENSTEMP= 293.1 SHPS:ATE=L      ARHO = 1480.  (E) BRHO = 0.0000E+00(E)
CPHO = 0.0000E+00(E) LOUPRNO= 303.1  LOLW:SND= 283.1  LOVISPT=      LOVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBD=      LQTHRCND= 0.5815 (E)
LTHCNTMP= 293.1  ACON = 0.5815 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1  LTCLOBND= 283.1
LOHTCPPT= 2931.  (E) LOHTCPTM= 293.1  AHC = 2931.  (E) BHC = 0.0000E+00(E) LHCUPEND= 298.1
LHCLOBNO= 283.1  SURFTENS=      SFTINTMP=      INTFTT=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VPUPRND=      VPLWRBD=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSIGN=      LHTVAPOR=      HTCOMSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM=      UPFLWLM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
LATETOX =      ABFLNTMP=      MOLRATIO=      A:RFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BCR  CHEMNAME = BARIUM CHLORATE                PATHCODE = SS
MOLEWT = 332.0      HBP =      NFP = 687.0      (E) CRITTEVP=
DENSITY = 3180.      DENSTEMP= 293.1      SHPSTATE=S      APHO =
CRHC =      LDUPREND=      LDWREND=      LOVISPT=
AVIS =      BVIS =      LVUPREND=      LVLWREND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=
LOHTCPPT=      LOHTCPTM=      AHC =      LHCUPEND=
LHCLOBND=      SURFTENS=      SFINTEMP=      INTFTTMP=
SOLUBPNT= 20.35      SOLUBTMP= 273.1      A =      B =
BVP =      CVP =      VPUPREND=      VPLWRBND=
BVCP =      CVCP =      DVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTCOVERTN=      HTSOLUTN= 0.8400E+05
HTREACTN=      HTPOLYMR=      LOFLMLIN=      BURNRATE=
TOXINHAL= 0.3400E-01      INHALCNC=      INHALTME=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
BCS      CHEMNAME = BUTYLTRICHLOROSILANE      PATHCODE = A 0
```

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

BDE  CHEMNAME = BISPHENOL A OIGLYCIOYL ETHER      PATHCODE = A  X
MOLEWT = 340.0      NBP =      SHPSRATE=L      NFP =      CRITTEMP=      CRITPRES=
DENSITY = 1160.      OENSTEMP= 293.1      SHPSRATE=L      ARHO = 1453.      (E) BRHO = -1.000      (E
CRHO = 0.0000E+00(E) LOUPRNO= 298.1      LDLRBND= 283.1      LDVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRNO=      LVLRBND=      LQTHRCNO=
LTHCNTMP=      ACON =      ECON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LOHTCPTM=      AHC =      BHC =      LHCUPEND=      INTFTTMP=
LHCLOBNO=      SURFTENS=      SFTNTMP=      INTFTENS=      AVP =
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VPUPRND=      VPLWRBND=      AVCP =
BVCP =      CVCP =      OVCP =      VHCUPEND=      VHCLOBNO=
HTFUSION=      LHTVAPOR=      HTCOM:STN= -0.3500E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=      0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      LOTOXLIM=      UPTOXLIM=      0.5000E-02
MOLFRAC =      FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BDO  CHEMNAME = 1,4-BUTANEDIOL          PATHCODE = A  P  Q
MOLEWT = 90.12      NBP = 501.2      CRITTEMP = 653.0      CRITPRES = 0.5000E+07
DENSITY = 1017.      OENSTEMP = 293.2      SHPSIATE=L      ARHO = 1310.      BRHO = -1.000
CRHO = 0.0000E+00    LDUPRNO = 353.2      LDLWESND = 293.2      LOVISINT = LOVISIMP =
AVIS =              BVIS =              LVUPRND =          LVLWRBND = LOTHRCND =
LTHCNTMP =          ACON =              BCON =              LTCUPBND = LTCLOBNO =
LOHTCPPT = 2190.      (E) LOHTCPTM = 300.0      (E) AHC = 2190.      (E) BHC = 0.0000E+00(E) LHCUPBND = 310.0      (E
LHCLOBND = 295.0      (E) SURFTENS = SFTNTEMP =          INTFTENS =          INTFTTMP =
SOLUBPNT =          SOLUBTMP =          A =              B =              AVP = 12.27      (E
BVP = 3637.      (E) CVP = 0.0000E+00(E) VPUPRNO = 340.0      (E) VPLWRBND = 295.0      (E) AVCP =
BVCP =              CVCP =              DVCP =              VHCUPBND = VHCLOBND =
HTFUSION =          LHTVAPOR =          HTCOVSTN = -0.2770E+08(E) HTOECOMP = HTSOLUTN =
HTREACTN =          HTPOLYMR =          LOFLMLIM =          UPFLMLIM =
TOXINHAL =          INHALCNC =          INHALTME =          MOLRATIO =
LATETOX =          ABFLMTMP =
MOLFRAC =

```

0.5000E-02

UPTOXLIM =

0.5000E-03

UPTOXLIN =

AIRFUEL =

MOLRATIO =

ABFLMTMP =

INHALCNC =

HTPOLYMR =

LHTVAPOR =

HTFUSION =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

INTFTTMP =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

INTFTTMP =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

INTFTTMP =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

INTFTTMP =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

INTFTTMP =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

INTFTTMP =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

INTFTTMP =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

INTFTTMP =

12.27 (E

AVP =

295.0 (E

VPLWRBND =

340.0 (E

SFTNTEMP =

300.0 (E

LOHTCPTM =

ACON =

BVIS =

LDUPRNO =

OENSTEMP =

501.2

NBP =

90.12

CHEMNAME =

1,4-BUTANEDIOL

PATHCODE =

A P Q

MOLEWT =

90.12

DENSITY =

1017.

OENSTEMP =

293.2

SHPSIATE=L

ARHO =

1310.

BRHO =

-1.000

LOVISIMP =

LOTHRCND =

LTCLOBNO =

LHCUPBND =

310.0 (E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BEC CHEMNAME = BERYLLIUM CHLORIDE PATHCODE = RR

MOLEWT = 79.90	NBP = 793.0	NFP = 713.0	CRITPRES=
DENSITY = 1900.	DENSTEMP= 298.1	SHPSSTATE=S	BRHO =
CRHO =	LOUPREND=	LDLWRBND=	LOVISTMP=
AVIS =	BVIS =	LVUPBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LOHTCPT=	LOHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTIMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPREND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOWBTDN=	HTSOLUTN= -0.2330E+07
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL= 0.5500E-03	INHALCNC= 0.7000E-02	INHALTME= 1800.	UPTOXLIM= 0.5000E-03
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SYSTEM OF UNITS

BEF	CHEMNAME = BERYLLIUM FLUORIDE	PATHCODE = SS	
MOLECW	= 47.00	NBP	=
DENSITY	= 1990.	DENSTMP	= 293.1
CRHO	=	LDLWRBND	=
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LQHTCPPT	=	LQHTCPTM	=
LHCLOBNO	=	SURFTENS	=
SOLUBPNT	= 50.00	SOLUBTMP	= 298.1
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	= 0.100DE-02	INHALCNC	= 0.1200E-01
LATETOX	=	ABFLMTMP	=
MOLFRAC	=		
		INHALTME	= 1800.
		MOLRATIO	=
		LOFLMLIM	=
		HTCOYSTN	=
		DVCP	=
		VPUPRND	=
		A	=
		SFTNTMP	=
		AHC	=
		BCON	=
		LVUPRND	=
		LDLWRBND	=
		SHPSSTATE	= S
		NFP	=
		CRITTEMP	=
		CRITPRES	=
		BRHO	=
		LOVISTMP	=
		LQTHRCND	=
		LTCLOBND	=
		LHCUPBND	=
		INTFTTMP	=
		AVP	=
		AVCP	=
		VHCLOBNO	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	=
		FLMETEMP	=

PATHCODE = 11

MOLECW	9.010	NBP	=	NFP	=	CRITTEMP	CRITPRES
DENSITY	1850.	DENSTEMP	293.1	SHPSSTATE=S		APHO	BRHO
CRHC		LOUPRBN		LOLWPSND		LOVISPI	LOVISTMP
AVIS		BVIS		LVUPRBN		LVLWRBD	LOTHRCD
LTHCNTMP		ACON		BCON		LTCUPBD	LTCLOEND
LQHTCPPT		LQHTCPTM		AHC		SHC	LHCUPEND
LHCLGBND		SURFTENS		SFTNTEMP		INTFTENS	INTFTTMP
SOLUBPNT		SOLUBTMP		A		B	AVP
BVP		CVP		VUPRBN		VPLWFSBD	AVCP
BVCP		CVCP		OVCP		VHCUPBD	VHCLGBND
HTFUSIGN		LHTVAPOR		HTCGNSTN	-0.6520E+08	HTOECOMP	HTSOLUTN
HTREACTN		HTPOLYMR		LGFLMLIM		UPFLMLIM	BURNRATE
TOXINHAL	0.5000E-02	INHALCNC	0.6200E-01	INHALTME	300.0	LJTOXLIN	UPTOXLIM
LATETOX		ABFLWTMP		MOLRATIO		AIRFUEL	FLMETEMP
MOLFRAC							

BEN CHEMNAME = BERYLLIUM NITRATE PATHCODE = SS

MOLECW	205.1	NBP	=	NFP	=	CRITPRES
DENSITY	1560.	DENSTEMP	=	SHPSATE=S	=	BRHO
CRHO	=	LDUPRND	=	LDLWRND	=	LOVISTMP
AVIS	=	BVIS	=	LVUPRND	=	LQTHRCND
LTHCNTMP	=	ACON	=	BCGN	=	LTCLOBND
LQHTCPPT	=	LQHTCPTM	=	AHC	=	LHCUPBND
LHCLOBND	=	SURFTENS	=	SFTNTEMP	=	INTFTTMP
SOLUBPNT	107.0	SOLUBTMP	=	A	=	AVP
BVP	=	CVP	=	VUPRND	=	AVCP
BVCP	=	CVCP	=	DVCP	=	VHCLOBND
HTFUSIGN	=	LHTVAPOR	=	HTCOMSTN	=	HTSOLUTN
HTREACTN	=	HTPOLYMR	=	LOFLMLIN	=	BURNRATE
TOXINHAL	0.2200E-03	INHALCNC	=	0.2700E-02	=	UPTOXLIM
LAFETOX	=	ABFLMTMP	=	MOLRATIO	=	FLMETEMP
MOLFRAC	=					

PATHCODE = 11

MOLECWt =	25.00	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	3000.	DENSTEMP=	293.1	SHPSATE=S	=	ARHO	BRHO =
CRHO	=	LDUPREND=		LDLWREND=		LOVISPRNT=	LOVISIMP=
AVIS	=	BVIS	=	LVUPREND=		LVLWREND=	LOTHRCND=
LTHCNTMP=		ACON	=	BCON	=	LTCUPEND=	LTCLOBND=
LOHTCPPT=		LOHTCPTM=		AHC	=	BHC	LHCUPEND=
LHCLOBND=		SURFTENS=		SFTNTTEMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUSTMP=		A	=	S	AVP =
BVP	=	CVP	=	VPUPREND=		VPLWREND=	AVCP =
BVCP	=	CVCP	=	DVCP	=	VHCUPEND=	VHCLOBND=
HTFUSIGN=		LHTVAPOR=		HTCONSTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=	0.1800E-02	INHALCNC=	0.2245E-01	INHALTME=	1800.	LOTOXLIM=	UPTOXLIM=
LARETOX =		ABFLWTMP=		MOLRATIO=		AIRFUEL =	FLWETEMP=
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BES  CHEMNAME = BERYLLIUM SULFATE          PATHCODE = SS
MOLEWT = 177.1      NBP      =
DENSITY = 1710.      DENSTEMP= 284.1
CRHO    =           LDUPRND=
AVIS    =           BVIS    =
LTHCNTMP=           ACON    =
LQHTCPPT=           LQHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT= 28.00      SOLUBTMP= 293.1      A      = -1.315      B      = 0.1000
BVP      =           CVP      =           VPUPRND=           VPLWRBND=
BVCP      =           CVCP      =           DVCP      =           VHCUPBND=
HTFUSION=           LHTVAPOR=           HTDECCMP=           HTSOLUTN= -0.3000E+05
HTREACTN=           HTPOLYMR=           LOFLMLIM=           UPFLMLIN=
TOXINHAL= 0.2500E-03  INHALCNC= 0.3200E-02  INHALTME= 1800.      LTOXLIM= 0.5000E-04  UPTOXLIM= 0.5000E-03
LATETOX  =           ABFLMTMP=           MOLRATIO=           AIRFUEL  =
MOLFRAC  =
CRITPRES=
BRHO      =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP        =
AVCP        =
VHCLOBND=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BHC  CHEMNAME = BENZENE HEXACHLORIDE          PATHCODE = II
      MOLEWT = 290.B      NBP =                NFP =
      DENSITY = 1891.      DENSTEMP= 292.2      SHPSTATE=S
      CRHO =              LDUPRND=              LDWRBND=
      AVIS =              BVIS =                LVUPRND=
      LTHCNTMP=           ACON =                BCON =
      LQHTCPPT=           LQHTCPTM=             AHC =
      LHCLOBND=           SURFTENS=             SFTNTEMP=
      SOLUBPNT= 0.1000E-02  SOLUBTMP= 293.2      A =
      BVP =              CVP =                VPUPRND=
      BVCP =             CVCP =                DVCP =
      HTFUSIGN=           LHTVAPOR=             HTCONSTN=
      HTREACTN=           HTPOLYMR=             LOFLMLIM=
      TOXINHAL= 0.3850E-01  INHALCNC= 0.7700E-01  INHALTME= 1800.
      LATETOX =           ABFLMTMP=             MOLRATIO=
      MOLFRAC =
      CRITPRES=
      BRHO =
      LQVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPEND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.5000E-03
      FLMETEMP=
      CRITTEMP=
      ARHO =
      LQVISPT=
      LVLWRBND=
      LTCUPBND=
      BHC =
      INTFTENS=
      B =
      VPLWRBND=
      VHCUPBND=
      HTDECOMP=
      UPFLMLIM=
      LOTOXLIV= 0.5000E-04
      AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SYSTEM OF UNITS

BHP CHEMNAME = TERT-BUTYL HYDROPEROXIDE

PATHCODE = A P O Z

MOLECW = 90.12	NBP =	NFP = 238.0	CRITTEMP =	CRITPRES =	
DENSITY = 880.0	DENSTEMP = 298.2	SHRSTATE=L	BRHO = 1173.	BRHO = -1.0000	
CRHO = 0.0000E+00	LDUPREND = 303.2	LDLWPSND = 283.2	LQVISPAT = 0.7000E-02	LOVISTMP = 298.2	
AVIS =	BVIS =	LVUPPSND =	LVLWREND =	LOTHRCND = 0.1700	(E)
LTHCNTMP = 295.0	(E) ACON = 0.1700	(E) BCON = 0.0000E+00(E)	LTCUPBND = 295.0	(E) LTCLOBND = 273.0	(E)
LQHTCPPT = 2000.	(E) LQHTCPTM = 295.0	(E) AHC = 2000.	(E) BHC = 0.0000E+00(E)	LHCUPBND = 295.0	(E)
LHCLOBND = 273.0	(E) SURFTENS = 0.3000E-01(E)	SFTNTMP = 295.0	(E) INTFTES = 0.5000E-01(E)	INTFTTMP = 295.0	(E)
SOLUBPNT = 8.000	SOLUBTMP = 293.2	A =	B =	AVP = 16.75	(E)
BVP = 4000.	(E) CVP = 0.0000E+00(E)	VPUPPSND = 295.0	(E) VPLWRSND = 273.0	(E) AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR =	HTCOYSTN = -0.3000E+08(E)	HTDECONP = -0.1570E+07	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIN =	LOFLMLIN =	BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTNE =	LOTCLIN = 0.5000E-04	UPTOXLIN = 0.5000E-03	
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BMA  CHEMNAME = BENZYLTRIMETHYLAMMONIUM CHLORIDE      PATHCODE = A  P
MOLEWT = 172.0      NBP =      NFP =
DENSITY = 1070.      DENSTEMP= 293.1      SHPSSTATE=L
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLWRBND= 283.1
AVIS =      BVIS =      LVUPREND=
LTHCNTMP=      ACON =      BCON =
LOHTCPPT=      LOHTCPTM=      AHC =
LHCLOBND=      SURFTENS=      SFTNTEMP=
SOLUBPNT=      SOLUBTMP=      A =
BVP =      CVP =      VPUPREND=
BVCP =      CVCP =      DVCP =
HTFUSION=      LHTVAPOR=      HTCONSTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=
TOXINHAL=      INHALCNC=      INHALTME=
LATETOX =      ABFLMTMP=      MOLRATIO=
MOLFRAC =

CRITPRES=      CRITTEMP=
(E) BRHO = 1363.      LRHO =
LOVISTMP=      LOVISPT=
LOTHRCHD=      LVLWRBND=
LTCLOBND=      LTCUPBND=
LHCUPBND=      BHC =
INTFTTMP=      INTFTENS=
AVP =      B =
AVCP =      VPLWRBND=
VHCLOBND=      VHCUPBND=
HTSOLUTN=      HTDECOMP=
BURNRATE=      UPFLMLIN=
UPTOXLIM= 0.5000E-04      COTOXLIM=
FLMETEMP=      AIRFUEL =
0.5000E-03

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BMN  CHEMNAME = N-BUTYL METHACRYLATE      PATHCODE = A  T  U
MOLEWT = 142.2  NBP = 435.0  NFP = 273.0  (E) CRITTEMP=
DENSITY = 890.0  DENSTEMP= 293.1  SHPSRATE=L  ARHO = 1183.  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E) LDUPRENO= 303.1  LOLWPSND= 273.1  ..JVISF,T= 0.3200E-02(E) LOVISTMP= 293.1
AVIS = -12.91  BVIS = 2100.  LVUPPENO= 298.1  LVLWRB,D= 288.1  LOTHRCND= 0.1512  (E)
LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E) LTCUPB,D= 298.1  LTCLOBND= 288.1
LQHTCPPT= 1926.  (E) LOHTCPTM= 293.1  AHC = 1926.  (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 288.1  SURFTENS= 0.3000E-01(E) SFTNTMP= 293.1  INTFTENS= 0.3500E-01(E) INTFTTMP= 293.1
COLUSPNT=  SOLUSTMP=  A =  B =  AVP = 9.685
BVP = 2040.  CVP = -0.1500  VPUPRBND= 438.1  VPLWRB,D= 293.1  AVCP =
BVCP =  CVCV =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSIGN=  LHTVAPOR=  HTCO/3TN= -0.3440E+08(E) HTOECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR= -0.4200E+06  LOFLKLIM= 2.000  (E) UPFLMLIM= 8.000  (E) BURNRATE= 0.8016E-04
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX =  ABFLMTMP=  MOLRATIO=  A:RFUEL =  FLWETEMP=
MOLFRAC =

```

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BNT	CHEMNAME = BARIUM NITRATE	PATHCODE = SS	
MOLEWT =	261.3	NBP =	865.0
DENSITY =	3240.	DENSTMP =	296.1
CRHO =		LDUPREND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPFT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPAT =	5.000	SOLUBTMP =	273.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	
		SHPSTATE = S	
		LDLWRBND =	
		LVUPBND =	
		BCON =	
		AHC =	
		SFTINTMP =	
		A =	-74.21
		S =	0.2900
		VPLWRB'D =	
		VHCUPBND =	
		HTDECOMP =	
		LOFLMLIM =	
		INHALTIME =	
		MOLRATIO =	
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	0.8400E+05
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BOC		CHEMNAME = BISMUTH OXYCHLORIDE		PATHCODE = II	
MOLEWT =	260.4	NBP =		CRITTEMP =	CRITPRES =
DENSITY =	7700.	DENSTEMP =	293.1	ARHO =	BRHO =
CRHO =		LDUPREND =		LDVISPNT =	LOVISTMP =
AVIS =		BVIS =		LVLWRBND =	LOTHRCND =
LTHCNTMP =		ACON =		LTCUPBND =	LTCLOBND =
LOHTCPRT =		LOHTCPTM =		BHC =	LHCUPBND =
LHCLOBND =		SURFTENS =		INTFTES =	INTFTTMP =
SOLUBPNT =		SOLUBTMP =		A =	AVP =
BVP =		VP =		VPLWRBND =	AVCP =
BVCP =		CVCP =		VHCUPBND =	VHCLOBND =
HTFUSION =		LHTVAPOR =		HTDECOMP =	HTSOLUTN =
HTREACTN =		HTPOLYMR =		UPFLMLIV =	BURNRATE =
TOXINHAL =		INHALCNC =		LOFLMLIM =	0.2150E-01(E) UPTOXLM =
LAFETOX =		ABFLMTMP =		INHALTIME =	
MOLFRAC =				MOLRATIO =	FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BPA CHEMNAME = BISPHEENOL A

PATHCODE = II

MOLECW = 228.3	NBP =	NFP = 430.0	CRITTEMP =	CRITPRES =
DENSITY = 1195.	DENSTEMP = 238.2	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWPSND =	LOVISPR =	LOVISIMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 0.6000E-01	SOLUBTMP = 298.2	A =	B =	AVP =
BVP =	CVP =	VPUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIN =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIN =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BPC CHEMNAME = BARIUM PERCHLORATE

PATHCODE = 55

MOLEWT = 390.3	NBP =	NFP = 778.0	CRITTEMP=	CRITPRES=
DENSITY = 3200.	DENSTEMP= 293.1	SHPSIATE=S	ARHC =	BRHO =
CRHO =	LDUPREND=	LDLWREND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPEND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPEND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 200.C	SOLUBTMP= 273.1	A =	B =	AVP =
BVP =	CVP =	VPUPREND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCORVSTN=	HTDECORV=	HTSOLUTN= 0.2000E+05
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL= 0.2900E-01	INHALCNC=	INHALTME=	UPTOXLIN=	UPTOXLIM=
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BPD  CHEMNAME = BENZENE PHOSPHORUS DICHLORIDE      PATHCODE = A  0
MOLEWT = 179.0      NBP      = 494.0      NFP      = 222.0      CRITTEMP=
DENSITY = 1320.      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 1613.      (E) BRHO      = -1.000      (E
CRHO      = 0.0000E+00(E) LOUPREND= 298.1      LDLEBND= 273.1      .JVISPT= 0.4400E-02      LOVISTMP= 298.1
AVIS      = -9.713      (E) BVIS      = 1280.      (E) LVUPREND= 303.1      LVLWRBND= 283.1      LOTHRCND= 0.1512      (E
LTHCNTMP= 293.1      ACON      = 0.1512      (E) BCON      = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 273.1
LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC      = 656.7      (E) BHC      = 4.187      (E) LHCUPEND= 298.1
LHCLOBND= 273.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 11.04
BVP      = 2980.      CVP      = -0.1500      VPUPREND= 498.1      VPLWRBND= 333.1      AVCP      =
BVCP      =      CVCP      =      OVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN= -0.1900E+08(E) HTDECOVP=      HTSOLUTN= -0.1700E+06
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

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*****
BPF  CHEMNAME = BROMINE PENTAFLUORIDE      PATHCODE = A  O  Z
MOLEWT = 174.9      NBP = 314.0      CRITEMP = 473.0      CRITPRES =
DENSITY = 2480.      DENSTEMP = 293.1      SHPSSTATE=L      BRHO = 3.460
CRHO = 0.0000E+00      LDUPREND = 343.1      LDWRBND = 278.1      LQVISTMP =
AVIS =              BVIS =              LVUPREND =          LOTHRCND =
LTHCNTMP =          ACON =              LOHTCPTM =          LTCLOBND =
LOHTCPPT =          SURFTENS =          SFNTEMP =          LHCUPBND =
LHCLOBND =          SOLUBTMP =          A =              INTFTTMP =
SOLUBPNT =          CVP = 1628.      CVC = -0.1500      B =              AVP = 10.20
BVP =              CVC =              LHTVAPOR = 0.1790E+06      VPLWRBND = 278.1      AVCP =
HTFUSION =          HTPOLYMR =          INHALCNC =          VHCLOBND =
HTREACTN =          INHALCNC =          ABFLWTMP =          HTSOLUTN =
TOXINHAL = 0.1000      ABFLWTMP =          MOLRATIO =          BURNRATE =
LATETOX =          MOLFRAC =          UPTOXLIN =          FLMETEMP =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BPM  CHEMNAME = BARIUM PERMANGANATE          PATHCODE = SS
      MOLEWT = 375.0      NBP =                NFP =                CRITTEMP=
      DENSITY = 3770.      DENSTEMP= 293.1      SHPSRATE=S          BRHO =
      CRHO =              LDUPREND=            LDWRBND=            LOVISPT=
      AVIS =              BVIS =              LVUPRBND=            LOTHRCND=
      LTHCNTMP=           ACON =              BCON =              LTCLOBND=
      LOHTCPT=           LOHTCPTM=            AHC =              LHCUPBND=
      LHCLOBND=          SURFTENS=            SFTNTEMP=           INTFTTMP=
      SOLUBPNT= 62.50      SOLUBTMP= 284.1      A = -139.2          AVP =
      BVP =              CVP =              VPUPRBND=          AVCP =
      BVCP =              CVCP =              DVCP =              VHCLOBND=
      HTFUSIGN=          LHTVAPOR=            HTCOASTN=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=            LOFLYLM=           BURNRATE=
      TOXINHAL= 0.3000E-01  INHALCNC=          INHALIME=          UPTOXLIM=
      LATETOX =          ABFLMTMP=            MOLRATIO=          FLMETEMP=
      MOLFRAC =
*****

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BPO		CHEMNAME = BARIUM PEROXIDE		PATHCODE = II	
MOLECWT =	169.4	NBP =	723.0	CRITTEMP=	CRITPRES=
DENSITY =	4960.	DENSTEMP=	293.1	ARHO =	BRHO =
CRHO =		LOUPREND=		LQVISPNT=	LQVISTMP=
AVIS =		BVIS =		LVLWRBND=	LQTHRCND=
LTHCNTMP=		ACON =		LTCUPBND=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		INTFTENS=	INTFTTMP=
SOLUBPNT=	1.500	SOLUSTMP=	273.1	E =	AVP =
BVP =		CVP =		VFLWRBND=	AVCP =
BVCP =		CVCP =		VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		UPFLNLIM=	BURNRATE=
TOXINHAL=	0.6600E-01	INHALCNC=		LOTOXLIM=	UPTOXLIM=
LAFETOX =		ABFLMTMP=		AIRFUEL =	FLMETEMP=
MOLFRAC =					

BPT	CHEMNAME = BENZENE PHOSPHORUS THIOICHLORIDE	PATHCODE = A 0			
	MOLECWt = 211.0	NBP = 543.0	NFP = 249.2	CRITTEMP=	CRITPRES=
	DENSITY = 1390.	OENSTEMP= 293.1	SHPSRATE=L	ARHO = 1693.	(E) BRHO = -1.000 (E)
	CRHO = 0.0000E+00(E)	LDUPRENO= 258.1	LDLWRBNO= 273.1	LQVISPT= 0.4400E-02(E)	LQVISTMP= 298.1
	AVIS = -9.713	(E) BVIS = 1280.	(E) LVUPRBN0= 303.1	LVLWRBND= 283.1	LOTHRCND= 0.1512 (E)
	LTHCNTMP= 293.1	ACON = 0.1512	(E) BCON = 0.0000E+00(E)	LTCUPBND= 293.1	LTCLOBNO= 273.1
	LOHTCPPT= 1675.	(E) LQHTCPTM= 293.1	AHC = 1675.	(E) BHC = 0.0000E+00(E)	LHCUPBND= 293.1
	LHCLOBNO= 273.1	SURFTENS= 0.2500E-01(E)	SFTNTEMP= 293.1	INTFTENS=	INTFTTMP=
	SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 8.357
	BVP = 1820.	CVP = -0.1500	VPUPRBN0= 543.1	VPLWRBNO= 373.1	AVCP =
	BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
	HTFUSION=	LHTVAPOR=	HTCCVSTN= -0.1800E+08(E)	HTDECOMP=	HTSOLUTN= -0.2000E+05(E)
	HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
	TOXINHAL=	INHALCNC=	INHALTIME=	LOTOXLIM=	UPTOXLIM=
	LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
	MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BRA  CHEMNAME = N-BUTYRIC ACIO          PATHCODE = A  P  Q
MOLEWT = 88.10      NBP      = 437.0      NFP      = 268.0      CRITTEMP= 628.0      CRITPRES= 0.5300E+07
DENSITY = 958.0      OENSTMP= 293.1      SHPSTATE=L      ARHO      = 1251      BRHO      = -1.000
CRHO      = 0.0000E+00      LDUPREND= 303.1      LDLRBND= 273.1      LQVISPNT= 0.1650E-02      LQVISTMP= 293.1
AVIS      = -11.46      BVIS      = 1480.      LVUPREND= 313.1      LVLWRBND= 283.1      LQTHRCNO= 0.1628
LTHCNTMP= 285.1      ACON      = 0.1629      BCON      = 0.0000E+00      LTCUPBND= 298.1      LTCLOBND= 279.1
LQHTCPPT= 2093.      LQHTCPTM= 293.1      AHC      = 2093.      EHC      = 0.0000E+00      LHCUPBNO= 313.1
LHCLOBNO= 283.1      SURFTENS= 0.2674E-01      SFTNTMP= 293.1      INTFTENS= 0.0000E+00      INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A      =          B      =          AVP      = 9.909
BVP      = 1794.      CVP      = -70.45      VPUPREND= 343.1      VPLWRBND= 273.1      AVCP      = 0.1174E+05
BVCP      = 413.7      CYCP      = -0.2430      DVCP      = 0.5531E-04      VHCUPBND= 550.0      VHCLOBND= 250.0
HTFUSIGN=          LHTVAPOR= 0.3880E+06      HTCOMBTN= -0.2470E+08      HTDECCMP=          HTSCLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 2.190      UPFLMLIM= 13.40      BURNRATE= 0.4505E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTCXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BRT  CHEMNAME = BORON TRICHLORIDE          PATHCODE = A  C  O
MOLEWT = 117.2      NBP = 285.6      NFP = 166.0      CRITERP= 451.0      CRITPRES= 0.3900E+07
DENSITY = 1350.      DENSTEMP= 284.1      SHPSTATE=L      ARHO = 3424.      BRHO = -7.300
CRHO = 0.0000E+00      LDUPRBND= 293.1      LDLRBND= 273.1      LOVISPNT= 0.1000E-02      LOVISTMP= 285.6
AVIS = -10.37      BVIS = 990.0      LVUPRBND= 288.1      LVLWRSTD= 253.1      LOTHRCND= 0.1082
LTHCNTMP= 273.1      ACON = 0.1780      BCCN = -0.2559E-03      LTCUPBND= 283.1      LTCLOBND= 233.1
LQHTCPPT= 921.1      LQHTCPTM= 286.1      AHC = 621.5      BHC = 1.005      LHCUPBND= 298.1
LHCLOBND= 273.1      SURFTENS= 0.1670E-01      SFTNTMP= 293.1      INTFTENS= 9.698      INTFTTMP=
SOLUBPNT=          A =          VPUPRBND= 286.1      VPLWRBND= 233.1      AVCP = 0.5514E+05
BVP = 1340.      CVP = -0.1500      DVCP = 0.0000E+00      VHCUPBND= 300.0      VHCLOBND=
BVCP = 33.29      LHTVAPOR= 0.1600E+06      HTCCASTN=          HTSOLUTN= -0.3000E+08
HTFUSIGN=          HTPOLYMR=          LOFLMLIM=          BURNRATE=
HTREACTN=          INHALCNC=          INHALTME=          UPTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
TOXINHAL=          ABFLNTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
LAFETOX =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BRU CHEMNAME = BRUCINE

PATHCODE = II

MOLEWT = 394.4	NBP =	NFP = 451.0	CRITPRES=
DENSITY = 1000. (E)	DENSTEMP= 293.1	SHPSSTATE=S	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LQTHRCND=
LTHCNTWP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTW=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTTMP=
SCLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPRND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSIGN=	LHTVAPOR=	HTCO:STN= -0.3110E+08	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-04(E)
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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BRX  CHEMNAME = BROMINE
      PATHCODE = A P X
      MOLEWT = 159.8      NBP = 332.0      CRITTEMP=
      DENSITY = 3120.     OENSTEMP= 293.2    ARHO = 4118.    CRITPRES=
      CRHO = 0.0000E+00    LOUPRENO= 308.2    LQVISPNT= 0.9900E-03    LQVISTMP= -3.400
      AVIS = -10.01       BVIS = 906.0      LVUPRSNO= 298.2    LVLWRBNO= 268.2    LQVISTMP= 293.2
      LTHCNTMP=           ACON =           LTCUPBND=           LQVISTMP= 293.2
      LQHTCPPT= 420.0     (E) LQHTCPTM= 290.0     (E) AHC = 420.0     (E) BHC = 0.0000E+00(E) LHCUPENO= 300.0     (E)
      LHCLOBNO= 280.0     (E) SURFTENS= 0.4100E-01    SFTNTMP= 293.2    INTFTENS= 0.4000E-01(E) INTFTMP= 290.0     (E)
      SOLUBPNT= 3.500     SOLUBTMP= 298.2      A =           B =           AVP = 10.05
      BVP = 1670.         CVP = 0.4004E-01    VPUPRSND= 313.2    VPLWRSND= 266.2    AVCP = 0.3561E+05
      BVCP = 2.805        CVCP = 0.0000E+00    OVCP = 0.0000E+00    VHCUPBND= 600.0    VHCLOBND= 300.0
      HTFUSION=           LHTVAPOR= 0.1876E+06    HTCONSTN=           HTOECOMP=           HTSOLUTN=
      HTREACTN=           HTPOLYMR=           LOFLMLIM=           UPFLMLIM=           BURNRATE=
      TOXINHAL= 0.1000    INHALCNC= 0.4000    INHALTME= 1800.    LOTOXLIM=           UPTOXLIM=
      LAETOX =           ABFLMTMP=           MOLRATIO=           AIRFUEL =
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
8TA  CHEMNAME = SEC-BUTYL ACETATE          PATHCODE = A  T  U
      MOLEWT = 116.2      NBP = 325.0      NFP = 199.7      CRITTEMP= 561.0      CRITPRES= 0.3200E+07
      DENSITY = 872.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 980.1      BRHO = 0.2473
      CRHO = -0.2100E-02      LDUPR8ND= 358.2      LOLWR8ND= 288.2      LQVIS8NT= 0.6900E-03(E) LOVISTMP= 300.0 (E)
      AVIS = -10.19 (E) BVIS = 870.0 (E) LVUPR8ND= 320.0 (E) LVLWR8ND= 280.0 (E) LOTHRCND= 0.1507 (E)
      LTHCNTMP= 295.0 (E) ACON = 0.2100 (E) BCON = -0.2000E-03(E) LTCUP8ND= 350.0 (E) LTCLOSND= 280.0 (E)
      LQHTCPPT= 2000. (E) LOHTCPTM= 300.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUP8ND= 300.0 (E)
      LHCLOBND= 270.0 (E) SURFTENS= 0.2330E-01      SFTINTEMP= 294.2      INTFTENS= 0.5800E-01(E) INTFTTMP= 290.0 (E)
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.061
      BVP = 1330.      CVP = -57.16      VPUPR8ND= 373.2      VPLWR8ND= 273.2      AVCp = 5987.
      BVCP = 544.3      CVCP = -0.2470      DVCP = 0.2010E-04      VHCUP8ND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.3100E+06(E) HTCOM8NTN= -0.3050E+08(E) HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLVLIM= 1.700      UPFLVLIM= 9.800      BURNRATE= 0.7333E-04(E)
      TOXINHAL= 200.0      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLWTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BTB  CHEMNAME = BORON TRIBROMIDE          PATHCODE = A  0
      MOLEWT = 250.5      NBP = 364.0      NFP = 227.0
      DENSITY = 2700      DENSTEMP = 293.1      SHPS:ATE=L
      CRHO = 0.0000E+00(E) LDUPRBN = 298.1      LDWRBN = 288.1
      AVIS =              BVIS =              LVUPRBN =
      LTHCNTMP =          ACON =              BCON =
      LQHTCPPT =          LOHTCPTM =          AHC =
      LHCLOBND =          SURFTENS =          SPINTEMP =
      SOLUBPNT =          SOLUBTMP =          A =
      BVP = 1740.         CVP = -0.1500      VPUPRBN = 363.1
      BVCP = 0.0000E+00   CVCP = 0.0000E+00   DVCP = 0.0000E+00
      HTFUSION =          LHTVAPOR = 0.1200E+06   HTCOWSTN =
      HTREACTN =          HTPOLYMR =          LOFL:FLIM =
      TOXINHAL = 1.000    INHALCNC =          INHALTME =
      LAIETOX =          ABFLMTMP =          MOLRATIO =
      MOLFRAC =
      CRITPRES =
      (E) BRHO = 0.0000E+00(E)
      LOVISTMP =
      LQTHRCND =
      LTCLOBND =
      LHCUPBND =
      INTFTTMP =
      AVP = 9.780
      AVCP = 0.6783E+05
      VHCLOBND = 300.0
      HTSOLUTN =
      BURNRATE =
      UPTOXLIN =
      FLMETEMP =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BTC      CHEMNAME = N-BUTYL ACRYLATE      PATHCODE = A T U Z
MOLECWT = 128.2      NBP      = 422.0      NFP      = 209.0      CRITTEMP= 600.0      CRITPRES= 0.2900E+07
DENSITY = 899.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1191.      BRHO      = -1.000D
CRHO      = 0.0000E+00      LDUPRBND= 323.2      LDLWRBND= 273.2      LOVISPT= 0.8360E-03      LOVISTMP= 293.2
AVIS      = -11.60      BVIS      = 1322.      LVUPRBND= 323.2      LVLWRBND= 273.2      LOTHRCND= 0.1507 (E)
LTHCNTMP= 295.0 (E)      ACON      = 0.2100 (E)      BCON      = -0.2000E-03(E)      LTCUPBND= 350.0 (E)      LTCLOBND= 280.0 (E)
LOHTCPPT= 1800.      LOHTCPTM= 293.2      AHC      = 572.9      BHC      = 4.187      LHCUPBND= 323.2
LHCLOBND= 273.2      SURFTENS= 0.2000E-01(E)      SFTNTEMP= 300.0 (E)      INTFTENS= 0.6000E-01(E)      INTFTMP= 300.0 (E)
SOLUBPNT= 0.2000 (E)      SOLUBTMP= 293.2      A      =      B      =      AVP      = 10.53
BVP      = 2290.      CVP      = 0.4004E-01      VPUPRBND= 353.2      VPLWRBND= 263.2      AVCP      = 0.4605E+05(E)
BVCP      = 598.7 (E)      CVCP      = -0.2931 (E)      DVCP      = 0.3266E-04(E)      VHCUPBND= 600.0 (E)      VHCLOBND= 250.0 (E)
HTFUSION=      LHTVAPOR= 0.2780E+06      HTCOMSTN= -0.3224E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR= -0.6029E+06      LOFLMLIM= 1.400      UPFLMLIM= 9.400      BURNRATE= 0.7833E-04
TOXINHAL=      INHALCNC= 1000.      INHALTME= 0.1440E+05      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

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*****
BT0  CHEMNAME = 1.4-BUTYNE-1,3-DIOL          PATHCODE = SS
      MOLEWT = 36.09      NBP = 511.0      NFP = 331.0
      DENSITY = 1070.      DENSTEMP= 293.2      SHPSTATE=S
      CRHO =              LDUPRND=              LQVISPNT=
      AVIS =              BVIS =              LVLWRBND=
      LTHCNTMP=          ACON =              LTCUPBND=
      LQHTCPPT=          LQHTCPTM=          EHC =
      LHCLOBND=          SURFTENS=          INTFTENS=
      SOLUBPNT=          SOLUBTMP=          A = -15.5B      B = 0.5000
      BVP =              CVP =              VPLWRBND=
      BVCP =              CVCP =              VHCUPBND=
      HTFUSION=          LHTVAPOR=          HTDECOMP=
      HTREACTN=          HTPOLYMR=          UPFLMLIN=
      TOXINHAL=          INHALCNC=          LOTOXLM= 0.5000E-04
      LATETOX =          ABFLMTMP=          UPTOXLM= 0.5000E-03
      MOLFRAC =          MOLRATIO=          FLMETEMP=
*****

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[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BTL  CHEMNAME = SEC-BUTYLAMINE      PATHCODE = A  P  O  R  S
MOLEWT = 73.10      NBP = 336.0      NFP = 169.0      CRITTEMP=
DENSITY = 720.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1013.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRND= 303.1      LDWRPND= 273.1      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRPND=      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPRND= 298.1      LTCLOBND= 288.1
LQHTCPPT= 2010.      (E) LQHTCPTM= 293.1      AHC = 2010.      (E) BHC = 0.0000E+00(E) LHCUPRND= 298.1
LHCLOBND= 288.1      SURFTENS= 0.2242E-01      SFTNTMP= 293.1      INTFTERS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.67
BVP = 2163.      CVP = -0.1500      VPUPRND= 313.1      VPLWRPND= 273.1      AVCP = 9491.      (E)
BVCP = 442.8      (E) CVCP = -0.2109      (E) DVCP = 0.2332E-04(E) VHCUPRND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4160E+06      HTCDISTN= -0.4090E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLVLIM=      UPFLMLIN=      BURNRATE= 0.1032E-03
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.500DE-03      UPTOXLIM= 0.5000E-02
LARETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BTM CHEMNAME = N-BUTYL MERCAPTAN

PATHCODE = A T U V W

PATHCODE = A

[illegible]

PATHCOOE = A B

MOLECWt =	56.10	=	266.9	=	NFP	=	90.00	=	CRITTEMP=	419.6	=	CRITPRES=	0.402CE+07	
DENSITY =	595.0	=	DENSTEMP=	293.2	=	SHPSSTATE=L	=	LRHC	=	919.5	=	BRHO	= -1.100	
CRHO =	0.000DE+00	=	LDUPRBNO=	293.2	=	LDLWRBND=	193.2	=	LQVISPLT=	0.1500E-03	=	LQVISTMP=	293.2	
AVIS =	-10.97	=	BVIS	=	634.0	=	LVUPRBN=	298.2	=	LVLWRBND=	183.2	=	LQTHRCND=	
LTHCNTMP=		=	ACON	=		=	BCCN	=	LTCUPBND=		=	LTCLOBND=		
LQHTCPT=	2345.	=	LQHTCPT=	267.2	=	AHC	=	1108.	=	BHC	=	LHCUPEND=	333.2	
LHCLOBND=	233.2	=	SURFTENS=	0.1250E-01	=	SFTNTEMP=	293.2	=	INTFTENS=	0.6800E-01(E)	=	INTFTTMP=	273.0 (E)	
SOLUBPNT=		=	SOLUBTMP=		=	A	=		=	B	=	AVP	= 9.503	
BVP =	1200.	=	CVP	=	0.4004E-01	=	VPUPRBN=	293.2	=	VPLWRBND=	253.2	=	AVCP	= -1005.
BVCP =	362.2	=	CVCP	=	-0.2135	=	DVCP	=	0.5024E-04	=	VHCUPBND=	20.0	VHCLOBNO=	250.0
HTFUSION=		=	LHTVAPOR=	0.3910E+06	=	HTCOVSTN=	-0.4533E+08	=	HTDECOMP=		=	HTSOLUTN=		
HTREACTN=		=	HTPOLYMR=		=	LOFLMLIM=	1.600	=	UPFLMLIM=	10.00	=	BURNRATE=	0.1467E-03	
TOXINHAL=		=	INHALCNC=		=	INHALTME=		=	LOTOXLIM=		=	UPTOXLIM=		
LATETOX =		=	ABFLMTMP=	2493.	=	(E) MOLRATIO=	0.8750	=	(E) AIRFUEL	=	14.68	=	(E) FLMETEMP=	
MOLFRAC =		=			=			=			=			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BTO  CHEMNAME = BUTYLENE OXIDE          PATHCODE = A  P  O  R  S
MOLECWT = 72.00      NBP = 338.0      NFP = 223.0      (E) CRITTEMP=
DENSITY = 826.0      DENSTEMP= 298.1      SHPSRATE=L      ARHO = 1119.      (E) BRHO = -1.000      (E
CRHO = 0.0000E+00(E) LOUPRBND= 303.1      LDLWRBND= 283.1      LOVISBND= 0.4000E-03      LOVISTMP= 298.1
AVIS = -10.68      (E) BVIS = 850.0      (E) LVUPRBND= 303.1      LVLWRBND= 283.1      LOTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
LOHTCPPT=          LOHTCPTM=          AHC =          BHC =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=          INTFTIMP=
SOLUBPNT= 7.000      SOLUBTMP= 293.1      A =          B =          AVP =          = 8.844
BVP = 1290.      CVP = -0.1500      VPUPRBND= 343.1      VPLWRBND= 283.1      AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR= 0.4200E+06(E) HTCOWBTDN= -0.3540E+08      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.500      UPFLMLIM= 18.3D      BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PATHCODE = 11

[illegible]

BTR	CHENAME = N-BUTYRALDEHYDE	PATHCODE = A P O									
	MOLECW = 72.11	NBP = 348.0	NFP = 176.8	CRITTEMP=	524.0	CRITPRES=	0.410DE+07				
	DENSITY = 803.0	DENSTEMP=	293.2	SHPSTATE=L	ARHO = 1124.	BRHO =	-1.100				
	CRHO = 0.0000E+00	LOUPR2ND=	333.2	L0LWRBND=	273.2	LOVISPT=	0.420DE-03				
	AVIS = -10.64	BVIS = 838.0	LVUPR2ND=	313.2	LVLWRBNO=	233.2	LOTHRCNO=	0.1454			
	LTHCNTMP=	293.2	ACON = 0.2136	BCON = -0.2326E-03	LTCUPBND=	333.2	LTCLOBNO=	223.2			
	LOHTCPPT=	2177.	LOHTCPTM=	AHC = 1563.	BHC =	2.093	LHCUPBNO=	303.2			
	LHCLOBNO=	223.2	SURTFENS=	SFTNTMP=	293.2	INTFTENS=	0.5500E-01(E)	INTFTTMP=	293.0 (E)		
	SOLUBPNT=	7.100	SOLUBTMP=	A =	B =	AVP =	9.146				
	BVP = 1233.	CVP = -40.16	VPUPR2ND=	373.2	VPLWRBND=	253.2	AVCP =	0.1424E+05			
	BVCP = 345.8	CVCP = -0.1717	OVCP =	0.2889E-04	VHCUPBND=	200.0	VHCL0BNO=	250.0			
	HTFUSION=	LHTVAPOR=	0.4271E+06	HTCOW3TN=	-0.3538E+08	HTDECOMP=	HTSOLUTN=				
	HTREACTN=	HTPOLYMR=		LOFLMLIM=	2.500	UPFLMLIN=	10.60	BURNRATE=	0.7333E-04		
	TOXINHAL=	INHALCNC=		INHALTME=		LOTOXLIM=	0.5000E-02	UPTOXLIM=	0.1500E-01		
	LARETOX =	ABFLWTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=				
	MOLFRAC =										

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

BUA  CHEMNAME = TERT-BUTYLAMINE      PATHCODE = A  P  O  R  S
MOLEWT = 73.14      NBP = 318.0      NFP =      CRITTEMP=
DENSITY = 696.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 989.2      CRITPRES=
CRHO = 0.0000E+00      LDUPRBD= 303.1      LDWRSD= 283.1      LOVISPT=      LOVISTMP=      BRHO = -1.000
AVIS =      BVIS =      LVUPRSD=      LVLWRSD=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPB'D=      LTCLOBND=
LQHTCPPT=      LOHTCPTM=      AHC =      EHC =      LHCUPBND=
LHCLOBND=      SURFTENS= 0.1900E-01      SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.03
BVP = 1596.      CVP = 0.5000E-01      VPUPRSD= 323.1      VPLWRBD= 268.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPB'D=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3880E+06      HTCOM'STN= -0.4100E+08      HTSOLUTN=
HTREACTN=      LTPOLYMR=      LOFLWLIM= 1.700      UPFLMLIN= 8.900      BURNRATE= 0.1169E-03(E
TOXIN:AL=      INHALCNC=      INHALTWE=      LOTOXLIN=      UPTOXLIM= 0.5000E-04(E
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BUD  CHEMNAME = 1,4-BUTENEDIOL          PATHCODE = A  P  O
MOLEWT = 88.11      NBP = 507.0      CRITTEMP = 280.0      CRITPRES =
DENSITY = 1070.      DENSTEMP = 298.2      SHPSTATE=L      APHO = 821.8      BRHO = -1.000
CRHO = 0.0000E+00    LDUPRNO = 303.2      LDLWRBND = 288.2      LOVISPT = 310.0      LOVISTMP =
AVIS = 0.0000E+00    BVIS = 0.0000E+00    LVUPRND = 288.2      LVLWRBND = 12.27      LOTHRCD =
LTHCNTMP = 0.0000E+00    ACON = 0.0000E+00    LTCUPBND = 0.0000E+00    LTCLOBND = 0.0000E+00    LHCUPBND =
LOHTCPPT = 2190.      (E) LOHTCPTM = 300.0      (E) AHC = 2190.      (E) BHC = 310.0      (E)
LHCLOBND = 295.0      (E) SURFTENS = 0.0000E+00    SFTNTMP = 0.0000E+00    INTFTTMP =
SOLUBPNT = 0.0000E+00    SOLUBTMP = 0.0000E+00    A = 0.0000E+00    B = 12.27      (E)
BVP = 3637.      (E) CVP = 0.0000E+00    VPUPRND = 340.0      (E) VPLWRBND = 295.0      (E) AVCP =
BVCP = 0.0000E+00    CVCP = 0.0000E+00    DVCV = 0.0000E+00    VHCUPBND = 0.0000E+00    VHCLOBND =
HTFUSION = 0.0000E+00    LHTVAPOR = 0.0000E+00    HTCOMSTN = -0.2500E+08    HTDECOMP = -0.2000E+05    (E)
HTREACTN = 0.0000E+00    HTPOLYMR = 0.0000E+00    LOFLMLIM = 0.0000E+00    UPFLMLIM = 0.0000E+00    BURNRATE =
TOXINHAL = 0.0000E+00    INHALCNC = 0.0000E+00    INHALTIME = 0.0000E+00    LOTXLIM = 0.5000E-03    UPTOXLIM =
LAFETOX = 0.0000E+00    ABFLMTMP = 0.0000E+00    MOLRATIO = 0.0000E+00    AIRFUEL = 0.0000E+00    FLMETEMP =
MOLFRAC = 0.0000E+00

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BUT  CHEMNAME = BUTANE
      MOLEWT = 58.12      NBP = 272.7      NFP = 135.0      CRITTEMP= 425.0      CRITPRES= 0.3796E+07
      DENSITY = 600.0      DENSTEMP= 273.2      SHPSTATE=L      ARHO = 846.7      BRHO = -0.9000
      CRHO = 0.0000E+00      LDUPR8ND= 293.2      LDLP8ND= 193.2      LQVISPT= 0.2100E-03      LOVISTMP= 273.2
      AVIS = -10.78      BVIS = 631.0      LVUPR3ND= 273.2      LVLWRB:D= 193.2      LOTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPPT= 2428.      LOHTCPTM= 273.2      AHC = 941.6      BHC = 5.443      LHCUP8ND= 333.2
      LHCLOBND= 233.2      SURFTENS= 0.1470E-01      SFTNTMP= 273.2      INTFTENS= 0.6500E-01(E)      INTFTTMP= 295.0 (E)
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.955
      BVP = 945.9      CVP = -33.16      VPUPR8ND= 303.2      VPLWR8ND= 203.2      AVCP = 3977
      BVCP = 372.6      CVCP = -0.1842      DVCP = 0.3517E-04      VHCUP8ND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.3852E+06      HTCOM8TN= -0.4538E+08      HTSOLUTN=
      HTRACTN=      HTPOLYMR=      LOFLMLIM= 1.800      UPFLMLIM= 8.400      BURNRATE= 0.1317E-03
      TOXINHAL= 500.0      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLTMP= 2435      (E) MOLRATIO= 0.8333      (E) AIRFUEL = 15.35      (E) FLMETEMP=
      MOLFRAC =

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PATHCODE = 11

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
BZM  CHEMNAME = BENZYLAMINE
      PATHCODE = A P O
      MOLECW = 107.2 NBP = 457.7 (E) CRITTEMP =
      DENSITY = 980.0 DENSTEMP = 293.1 SHPSTATE=L ARHO = 1222. CRITPRES=
      CRHO = 0.0000E+00 LDUPREND = 313.1 LDWRBND = 273.1 LOVISPT = 0.1D90E-02 LOVISTMP = 293.1 BRHO = -0.820D
      AVIS = -8.868 (E) BVIS = 600.0 (E) LVUPPSND = 303.1 LVLWRBND = 273.1 LQTHRCND = 0.1512 (E
      LTHCNTMP = 293.1 ACON = 0.1512 (E) BCON = 0.0000E+DD(E) LTCUPBND = 293.1 LTCLOBND = 283.1
      LQHTCPPT = 1884. (E) LQHTCPTM = 293.1 AHC = 1884. (E) BHC = 0.0000E+00(E) LHCUPBND = 293.1
      LHCLOBND = 283.1 SURFTENS = 0.3950E-01 SFTNTMP = 293.1 INTFTENS = INTFTTMP =
      SOLUBPNT = SOLUBTMP = A = B = AVP =
      BVP = CVP = VPUPRSND = VPLWRBND = AVCP = -0.1717E+05(E
      BVCP = 584.6 (E) CVCP = -0.3246 (E) OVCP = 0.5388E-04(E) VHCUPBND = 500.0 VHCLOBND = 250.0
      HTFUSION = LHTVAPOR = 0.3600E+06(E) HTCOMBNTN = -0.3780E+08 HTDECOMP = HTSOLUTN = -0.1000E+06
      HTREACTN = LOPOLYMR = LOFLMLIM = UPFLMLIM = BURNRATE = 0.6897E-04
      TOXINHAL = INHALCNC = INHALTME = LOTCXLIN = UPTOXLIM =
      LATETOX = ABFLMTMP = MOLRATIO = AIRFUEL =
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BZN CHEMNAME = BENZONITRILE

PATHCODE = A T X

MOLECW = 103.1	NBP = 454.0	NFP = 260.4	CRITTEMP = 699.4	CRITPRES = 0.4150E+08
DENSITY = 1010.	OENSTEMP = 298.1	SHPSSTATE=L	ARHC = 1270.	BRHO = -0.8800
CRHO = 0.0000E+00	LDUPRENO = 313.1	LOLWPBND = 273.1	LOVISPLT = 0.1250E-02	LOVISTMP = 298.1
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LOTHRCNO =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBNO =
LOHTCPPT = 1842.	LOHTCPTM = 293.1	AHC = 1842.	SHC = 0.0000E+00	LHCUPEND = 333.1
LHCLOBND = 283.1	SURFTENS = 0.3470E-01	SFTNTEMP = 298.1	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 10.28
BVP = 2450.	CV = -0.1500	VPUPRBND = 473.1	VPLWRBND = 313.1	AVCP = -0.1743E+05(E)
BVCP = 487.2	(E) CVCP = -0.3141	(E) OVCP = 0.5774E-04(E)	VHCUPBND = 500.0	VHCLOBNO = 250.0
HTFUSION =	LHTVAPOR = 0.3670E+06	HTCONGTN = -0.3510E+08	HTOECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIN =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIN = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BZO CHEMNAME = BENZYL-DIMETHYLOCTADECYLAMMONIUM CHLORIDE PATHCODE = SS

MOLEWT = 411.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1100. (E) DENSTEMP= 293.1	SHPSSTATE=S	ARHO =	BRHO =	
CRHO =	LDUPREND=	LDLWREND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LVLWREND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPREND=	LTCLOBND=
LQHTCPPT=	LOHTCPTM=	AHC =	EHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VPUPREND=	VPLWREND=	AVCP =
SVCP =	CVCP =	DVCP =	VHCUPREND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

BZP  CHEMNAME = BENZOPHENONE
      MOLEWT = 182.0      NBP = 578.7      PATHCODE = A T X
      DENSITY = 1085.     DENSTEMP= 323.1      NFP = 321.1      CRITTEMP=
      CRHO = 0.0000E+00   LDUPRBND= 333.1      SHPSTATE=L      ARHO = 3867.     BRHO = -10.00
      AVIS = -7.094      BVIS = 197.0      LVUPRBND= 393.1      LQVISPNT= 0.1530E-02  LOVISTMP= 323.1
      LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
      LOHTCPPT=          LOHTCPTM=          AHC =          BHC =          LHCUPBND=
      LHCLOBND=          SURFTENS= 0.4200E-01      SFTNTMP= 323.1      INTFTEMP=          INTFTTMP=
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
      BVP =          CVP =          VPUPRBND=          VPLWRBND=          AVCP =
      BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
      HTFUSIGN=          LHTVAPOR= 0.2930E+06      HTCOYSTN= -0.3580E+08  HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLWLM=          HTDECOMP=          BURNRATE=
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

```

CAA  CHEMNAME = COPPER ACETOARSENITE          PATHCODE = II  SS
MOLEWT = 1014.      NBP =                      CRITTEMP=
DENSITY = 1100.      (E) DENSTEMP= 293.1      ARHO =
CRHO =              LDUPREND=                  LOVISPAT=
AVIS =              BVIS =                      LVLWRBND=
LTHCNT:P=          ACON =                      LTCLOBND=
LOHTCPPT=          LOHTCPTM=                   LHCUPBND=
LHCLOBND=          SURFTENS=                   INTFTIMP=
SOLUBPNT= 3.000     SOLUBTMP= 293.1           AVP =
BVP =              CVP =                      VPLWRBND=
BVCP =             CVCP =                   VHCLOBND=
HTFUSION=          LHTVAPOR=                  HTSOLUTN=
HTREACTN=          HTPOLYMR=                  BURNRATE=
TOXINHAL= 0.1100E-01 INHALCNC=                UPTOXLIM= 0.5000E-04(E)
LATETOX =          ABFLMTMP=                  FLWETEMP=
MOLFRAC =          MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CAC  CHEMNAME = CHLOROACETYL CHLORIDE          PATHCODE = A  0

MOLECWT = 112.9      NBP = 378.0      NFP = 250.7      CRITTEMP=
DENSITY = 1420.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1713.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRNO= 303.1      LDWRBND= 273.1      LQVISPAT= 0.2100E-03(E) LQVISTMP= 293.1
AVIS = -11.21      (E) BVIS = 800.0      (E) LVUPRND= 303.1      LVLWRBND= 283.1      LQTHRCND= 0.1628      (E)
LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBNO= 273.1
LQHTCPPT= 1465.      (E) LOHTCPTM= 293.1      AHC = 238.0      (E) BHC = 4.187      (E) LHCUPBND= 303.1
LHCLOBNO= 273.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS= 9.707      (E)
SOLUBTMP= 1777.      (E) CVP = -0.1500      (E) VPUPRND= 378.1      VPLWRBND= 333.1      AVCP = 0.3152E+05(E)
BVCP = 194.1      (E) CVCP = -0.1293      (E) DVCP = 0.3199E-04(E) VHCUPBND= 500.0      VHCLOBNO= 250.0
HTFUSION= 194.1      LHTVAFOR= 0.3000E+06(E) HTCOHSTN= -0.9000E+07(E) HTOECCMP= -0.1300E+06(E)
HTREACTN= 194.1      HTPOLYMR= 194.1      LOFLMLIN= 194.1      UPFLMLIN= 194.1      BURNRATE= 194.1
TOXINHAL= 194.1      INHALCNC= 194.1      INHALTME= 194.1      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX = 194.1      ABFLMTMP= 194.1      MOLRATIO= 194.1      AIRFUEL = 194.1      FLMETEMP= 194.1
MOLFRAC = 194.1

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CAF  CHEMNAME = CALCIUM FLUORIDE          PATHCODE = II
MOLEWT = 78.08      NBP =
DENSITY = 3180.     DENSTEMP= 293.2      SHPSTATE=S
CRHO =              LDUPRND=              LDLWRND=
AVIS =              BVIS =              LVUPRND=
LTHCNTMP=           ACON =              BCON =
LOHTCPPT=           LOHTCPTM=           AHC =
LHCLOBND=           SURFTENS=           SFTNTEMP=
SOLUBPNT= 0.1800E-01 SOLUBTMP= 298.2     A =
BVP =              CVP =              VPUPRND=
BVCP =             CVCP =              DVCP =
HTFUSION=          LHTVAPOR=           HTCOM3TN=
HTREACTN=          HTPOLYMR=           LOFLW'LIM=
TOXINHAL=          INHALCNC=           INHALTME=
LAFETOX =          ABFLMTMP=           MOLRATIO=
MOLFRAC =
CRITPRES=          CRITTEMP=
BRHO =             ARHO =
LOVISTMP=          LOVISPNT=
LQTHRCND=          LVLWRND=
LTCLOBND=          LTCUPEND=
LHCUPBND=          SHC =
INTFTTMP=          INTFTENS=
AVP =              B =
AVCP =             VPLWRND=
VHCLOBND=          VHCUPBND=
HTSOLUTN=          HTDECORP=
BURNRATE=          UPFLMLIN=
UPTOXLIM= 0.5000E-03 LOTOXLIM=
FLMETEMP=          AIRFUEL =
0.5000E-02

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAH CHEMNAME = CALCIUM HYDROXIDE PATHCODE = II

MOLEWT = 74.09	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2240.	DENSTEMP= 293.2	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPPBND=	LDLWRBND=	LOVISINT=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	SCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LOHTCPTM=	AHC =	EHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTINTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 0.1300	SOLUBTMP= 290.9	A =	B =	AVP =
BVP =	CVP =	VPUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	SCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.1500E-01
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAL CHEMNAME = CALCIUM PHOSPHATE PATHCODE = SS

MOLEWT =	2500.	(E) DENSTEMP=	293.1	NFP =	SHPSRATE=S	CRITPRES=
DENSITY =		LDUPREND=		LDLWRBND=		BRHO =
CRHO =		BVIS =		LVUPRSND=		LOVISSTMP=
AVIS =		ACON =		BCON =		LOTHRCNO=
LTHCNTMP=		LQHTCPTM=		AHC =		LTCLOBND=
LQHTCPPT=		SURFTENS=		SFTNTEMP=		LHCUPBND=
LHCLOBND=		SOLUBTMP=	303.1	A =		INTFTTMP=
SOLUBPNT=	1.800	CVP =		VPUPREND=		AVP =
BVP =		CVCP =		OVCP =		AVCP =
BVCP =		LHTVAPOR=		HTCOWSTN=		VHCLOBND=
HTFUSION=		HTPOLYMR=		LOFLWLIM=		HTSOLUTN=
HTREACTN=		INHALCNC=		INHALTME=		BURNRATE=
TOXINHAL=		ABFLMTMP=		MOLRATIO=		LOTOXLIM=
LATETOX =						UPTOXLIM=
MOLFRAC =						FLMETEMP=

0.1500E-01(E)

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/47/22 PAGE168

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAM	CHEMNAME = CALCIUM, METALLIC	PATHCODE = II RR
MOLECW	= 40.10	NBP = 1763.
DENSITY	= 1550.	DENSTEMP = 293.1
CRHO	=	LDUPREND =
AVIS	=	BVIS =
LTHCNTMP	=	ACON =
LQHTCPPT	=	LQHTCPTM =
LHCLOBND	=	SURFTENS =
SOLUBPNT	=	SOLUBTMP =
BVP	=	CVP =
BVCP	=	CVCP =
HTFUSIGN	=	LHTVAPOR =
HTREACTN	=	HTPCLYMR =
TOXINHAL	=	INHALCNC =
LAFETOX	=	ABFLWTMP =
MOLFRAC	=	
		NFP = 1123.
		SHPSATE = S
		LDLWRBND =
		LVUPRBND =
		BCON =
		AHC =
		SFTNTEMP =
		A =
		VPUPRBND =
		DVCP =
		HTCOMSTN = -0.1580E+08(E) HTDECOMP =
		LOFLMLIM =
		INHALTIME =
		MOLRATIC =
		CRITTEMP =
		ARHO =
		LOVISPT =
		LVLWRBND =
		LTCUPBND =
		BHC =
		INTFTENS =
		B =
		VPLWRBND =
		VHCLPBND =
		HTSOLUTN =
		UPFLMLIM =
		LOTOXLIM =
		AIRFUEL =
		CRITPRES =
		BRHO =
		LQVISTMP =
		LQTHRCND =
		LTCLOBND =
		LHCUPBND =
		INTFTTMP =
		AVP =
		AVCP =
		VHCLPBND =
		HTSOLUTN =
		BURNRATE =
		UPTOXLIM =
		FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAO CHEMNAME = CALCIUM OXIDE

PATHCODE = RR

MOLEWT =	56.08	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	3300.	DENSTEMP=	SHPSSTATE=S	ARHO =	BRHO =
CRHO =		LDUPREND=	LDLWRSND=	LQVISPT=	LQVISTMP=
AVIS =		BVIS =	LVUPRSND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=		ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=	A =	B =	AVP =
BVP =		CVP =	VPUPRSND=	VPLWRBND=	AVCP =
BVCP =		CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=	HTCONSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	-0.1135E+07	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	2.000	INHALCNC=	INHALTIME=	LOTOXLIN=	UPTOXLIM=
LAFETOX =		ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
WOLFRAC =					

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/47/24 PAGE170

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAP CHEMNAME = P-CHLOROANILINE PATHCODE = II

MOLEWT = 127.6	NBP = 503.0	NFP = 343.0	CRITTEMP =	CRITPRES =
DENSITY = 1430.	DENSTEMP = 292.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWPSND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPPSND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	SHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTINTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 0.4000	SOLUBTMP = 303.1	A =	B =	AVP = 10.60
BVP = 2813.	CVP = -0.1500	VPUPRSND = 503.1	VPLWRBND =	AVCP = 333.1
BVCP =	CVCP =	DVCP =	VHCUPSND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.2500E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CAR    CHEMNAME = CARENE
MOLECW = 136.0      NBP = 443.0      CRITTEMP=
DENSITY = 860.0      DENSTEMP= 293.1      SHPSIATE=L      ARHO = 1212.      CRITPRES=
CRHO = 0.0000E+00    LDUPREND= 298.1      LOLWRBND= 278.1      LQVISPNT= 0.1200E-02      LOVISTMP= 293.1      BRHO = -1.200
AVIS =              BVIS =              LVUPREND=              LVLWRBND=              LOTHRCND= 0.1512      (E
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1      LHCUPBND=
LOHTCPPT=            LOHTCPTM=            AHC =              EHC =              INTFTTMP=
LHCLOBND=            SURFTENS=            SFTNTEMP=            INTFTTMS=            AVP = 10.10
SOLUBPNT=            SOLUBTMP=            A =              B =              AVCP =
BVP = 2258.          CVP = -0.1500      VPUPREND= 443.1      VPLWRBND= 343.1      VHCLOBND=
BVCP =              CVCP =              DVCP =              VHCUPBND=
HTFUSION=            LHTVAPOR=            HTCO:STN= -0.4500E+08(E) HTDECOMP=
HTREACTN=            HTPOLYMR=            LOFLXLIM=            UPFLXLIM=
TOXINHAL=            INHALCNC=            INHALTME=            LOTOXLIM=
LATETOX =            ABFLMTMP=            MOLRATIO=            AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S4 SYSTEM OF UNITS

CAT CHEMNAME = CADMIUM ACETATE PATHCODE = SS

MOLEWT = 266.5	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2340.	DENSTEMP= 293.1	SHPSSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SCLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VPUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCONSTN=	HTDECMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.1680E-01	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-04(E
LAFETOX =	ABFLMTMP=	MOLPATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

MOLECWt =	249.1	NBP	=	413.0	CRITTEMP=	CRITPRES=
DENSITY =	1710.	DENSITY=	293.1	SHPSSTATE=S	LRHO =	BRHO =
CRHD =		LOUPREND=		LOLUPEND=	LOVISPT=	LOVISTMP=
AVIS =		BVIS =		LVUPREND=	LVLWRBND=	LQTHRCND=
LTHCNTNP=		ACON =		BCON =	LTCUPEND=	LTCLOBNO=
LQHTCPPT=		LOHTCPTM=		AHC =	EHC =	LHCUPEND=
LHCLOBND=		SURFTENS=		SFTNTIMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =	B =	AVP =
BVP =		CVP =		VPUPEEND=	VPLWRBND=	AVCP =
BVCP =		CVCP =		OVCP =	VHCUPEND=	VHCLOBND=
HTFUSIGN=		LHTVAPOR=		HTCOSSTN=	HTDECOVE=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLVLIW=	UPFLMLIN=	BURNRATE=
TOXINHAL=	0.9000E-02	INHALCNC=		INHALTME=	LOTOXLIW=	UPTOXLIM=
LATETOX =		ABFLNTMP=		MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CBB  CHEMNAME = CARBON BISULFIDE      PATHCODE = A  X  Y
MOLEWT = 76.14  NBP = 319.5  NFP = 161.6  CRITTEMP= 546.0  CRITPRES= 0.7700E+07
DENSITY = 1260.  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1675.  BRHO = -1.400
CRHO = 0.0000E+00  LDUPRND= 333.2  LOLWRND= 238.2  LOVISPNT= 0.3670E-03  LOVISTMP= 293.2
AVIS = -9.974  BVIS = 605.0  LVUPRND= 318.2  LVLWRBND= 273.2  LQTHRCND= 0.1256
LTHCNTMP= 293.2  ACON = 0.1938  BCON = -0.2326E-03  LTCUPBND= 293.2  LTCLOBND= 193.2
LQHTCPPT= 1001.  LOHTCPTM= 293.2  AHC = 755.2  BHC = 0.8374  LHCUPBND= 353.2
LHCLOBND= 193.2  SURFTENS= 0.3200E-01  SFTNTMP= 293.2  INTFTENS= 0.4840E-01  INTFTTMP= 293.1
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 9.577
BVP = 1460.  CVP = 0.4004E-01  VPUPRND= 333.2  VPLWRBND= 263.2  AVCP = 0.1926E+05
BVCP = 79.55  CVCP = -0.7536E-01  DVCP = 0.2638E-04  VHCUPBND= 500.0  VHCLOBND= 250.0
HTFUSIGN=  LHTVAPOR= 0.3559E+06  HTCOMSTN= -0.1352E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 300  UPFLMLIM= 50.00  BURNRATE= 0.4500E-04
TOXINHAL= 20.00  INHALCNC= 100.0  INHALTME= 1800.  LOTOXLM=  LOTOXLM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

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HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05:47/32 PAGE175
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

CBC	CHEMNAME = COBALT CHLORIDE	PATHCODE = SS	
MOLECWT =	237.9	NBP =	359.0
DENSITY =	1924.	DENSTEMP =	293.1
CRHO =		LDUPREND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LDHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	52.90	SOLUBTMP =	293.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	D.9400E-02	INHALCNC =	
LATEOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	
		SHPSSTATE = S	
		LDLWRBND =	
		LVUPREND =	
		BCON =	
		AHC =	
		SFTNTEMP =	
		A =	-84.88
		VPUPREND =	
		DVCP =	
		HTCCNSTN =	
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	
		LOVISPT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	0.4700
		VPLWRBND =	
		VHCUPBND =	
		HTOECOP =	
		UPFLMLIM =	
		LOTOXLIM =	0.500DE-04
		AIRFUEL =	
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	0.5000E+05
		BURNRATE =	
		UPTOXLIM =	0.5000E-03
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CEN  CHEMNAME = 4-CHLOROBUTYRONITRILE          PATHCOOE = A  X  Y
MOLECW = 103.5      NBP = 463.0      NFP =      CRITTEMP=
DENSITY = 1220.      DENSTEMP= 293.1      SHPSRATE=L      ARHO = 1513.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPREND= 298.1      LDLWBND= 278.1      LOVISPT=      LQVISTMP=
AVIS =      BVIS =      LVUPRBN=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      BHC =      LHCUPBNO=
LHCLOBND=      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.39
BVP = 2495.      CVP = -0.1500      VPUPREND= 463.1      VPLWRBND= 343.1      AVCP = 0.3668E+05(E)
BVCP = 300.1      (E) CVCP = -0.1444      (E) DVCP = 0.1789E-04(E)      VHCUPBND= 550.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4310E+06(E)      HTCOMSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.4000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

C80 CHEMNAME = CARBOLIC OIL

PATHCODE = A P Q

MOLEWT = 94.11	NBP = 455.0	NFP = 314.1	(E) CRITTEMP = 694.3	CRITPRES = 0.6130E+07
DENSITY = 1060.	OENSTEMP = 293.2	SHPSRATE=L	ARHO = 1366.	BRHO = -1.186
CRHO = 0.6700E-03	LDUPRND = 373.2	LWLWRND = 314.2	LOVISPNT = 0.4640E-02	LOVISTMP = 314.2
AVIS = -15.88	BVIS = 3300.	LVUPRND = 353.2	LVLWRND = 314.2	LOTHRCND = 0.1605
LTHCNTMP = 323.2	ACON =	BCON =	LTCUPRND =	LTCLOBND =
LOHTCPPT = 2500.	(E) LOHTCPTM = 300.0	(E) AHC = 2500.	(E) BHC =	LHCUPRND = 300.0
LHCLOBND = 273.0	(E) SURFTENS = 0.3000E-01(E)	SFTNTMP = 300.0	(E) INTFTENS =	INTFTTMP =
SOLUBPNT = 8.400	SOLUBTMP = 293.2	A =	B =	AVP = 10.71
BVP = 2593.	CVP = 0.4004E-01	VPUPRND = 453.2	VPLWRND = 293.2	AVCP = -0.2474E+05
BVCP = 515.4	CVCP = -0.2847	OVCP = 0.0000E+00	VHCUPRND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3014E+06	HTCOMSTN = -0.3117E+08	HTOECORND =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.700	UPFLMLIM = 8.600	BURNRATE = 0.5833E-04(E)
TOXINHAL = 5.000	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLNTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

CBR CHEMNAME = CYANOGEN BROWIDE

PATHCODE = II

MOLEWT = 105.9	NEP =	NFP = 324.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 2015.	DENSTEMP = 293.2	SHPSSTATE = S	ARHC =	BRHO =
CRHO =	LDUPREND =	LDLWBND =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOEND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNIEMP =	INTFTERS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPREND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSIGN =	LHTVAPOR =	HTCCNSTN =	HTDECCN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIT =	BURNRATE =
TOXINHAL = 0.5000	INHALCNC =	INHALTME =	LOTOXLIN =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CBS CHEMNAME = COBALT SULFATE

PATHCODE = SS

MOLECW = 281.1	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1948.	OENSTEMP = 293.1	SHPSIATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISPR =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	SHC =	LHCUPEND =
LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 34.50	SOLUBTMP = 293.1	A = -109.1	B = 0.1300	AVP =
BVP =	CVP =	VPUPREND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOYSTN =	HTDECCIP =	HTSOLUTN = 0.5400E+05
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL = 0.8000E-02	INHALCNC =	INHALTME =	LOTCXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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CBT  CHEMNAME = CARBON TETRACHLORIDE      P.ATHCODE = A  X
MOLEWT = 153.8      NBP = 349.7      NFP = 250.2
DENSITY = 1590.      DENSTEMP = 293.2      SHPSTATE=L
CRHO = -0.6900E-03      LOUPREND = 323.2      LOLWREND = 273.2
AVIS = -11.30      BVIS = 1280.      LVUPREND = 333.2
LTHCNTMP = 293.2      ACON = 0.1729      BCON = -0.2326E-03
LQHTCPPT = 904.3      LOHTCPTM = 293.2      AHC = -77.57
LHCLOBND = 273.2      SURFTENS = 0.2700E-01      SFTNTIMP = 293.2
SOLUBPNT = 0.8000E-01      SOLUBTMP = 298.2      A =
BVP = 1771.      CVP = 0.4004E-01      VPLUPREND = 373.2
BVCP = 187.6      CVCP = -0.1507      DVCP = 0.0000E+00
HTFUSIGN =      LHTVAPOR = 0.1959E+06      HTCONSTN =
HTREACTN =      HTPOLYMR =      LOFLMLIM =
TOXINHAL = 10.00      INHALCNC = 25.00      INHALTME = 1800.
LARETOX =      ABFLNTMP =      MOLRATIO =
MOLFRAC =
CRITPRES = 0.4600E+07
BRHO = -1.523
LOVISTMP = 294.2
LQTHRCND = 0.1047
LTCLOBND = 193.2
LHCUPBND = 333.2
INTFTIMP = 293.1
AVP = 10.13
AVCP = 0.4137E+05
VHCLOBND = 250.0
HTSOLUTN =
BURNRATE =
UPTOXLIM = 0.5000E-02
FLMETEMP =

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HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/47/44 PAGE1B1

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CBY CHEMNAME = CARBARYL

PATHCODE = 11

MOLEWT =	NBP =	NFP =	415.0	CRITTEMP=	CRITPRES=
DENSITY =	DENSTEMP=	293.2	SHPSIATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=		LDLWPSAD=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =		LVUPRBNB=	LVLWRB'D=	LOTHRCND=
LTHCNTMP=	ACCN =		BCCN =	LTCUPERD=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=		AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=		SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUSTMP=		A =	B =	AVP =
BVP =	CVP =		VPUPRBNB=	VPLWPSAD=	AVCP =
BVCP =	CVCP =		DVCP =	VHCUPB'D=	VHCLOBND=
HTFUSION=	LHTVAPOR=		HTCONSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=		LOFLMLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL=	INHALCNC=		INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=		MOLRATIO=		FLMETEMP=
MOLFRAC =				0.5000E-03	0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CCA	CHEMNAME = CALCIUM ARSENATE	PATHCODE = 11	
MOLECW	= 398.0	NBP	=
DENSITY	= 3620.	DENSTEMP	= 293.1
CRHO	=	LDUPRBN	=
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LQHTCPPT	=	LOHTCPTM	=
LHCLOBNO	=	SURFTENS	=
SOLUBPNT	= 0.1300E-01	SOLUBTMP	= 293.1
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	= 0.5630E-01	INHALCNC	=
LATETOX	=	ABFLMTMP	=
MOLFRAC	=		
		CRITTEMP	=
		APHO	=
		LOVISPT	=
		LVLRBND	=
		LTCUPBND	=
		BHC	=
		INTFTENS	=
		E	=
		VPLWRBND	=
		VHCUPBND	=
		HTDECOXP	=
		UPFLWLIN	=
		LOTOXLI	=
		AIRFUEL	=
		CRITPRES	=
		BRHO	=
		LOVISTMP	=
		LOTHRCND	=
		LTCLOBND	=
		LHCUPEND	=
		INTFTTMP	=
		AVP	=
		AVCP	=
		VHCLOBNO	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	= 0.5000E-03
		FLMETEMP	=
		0.5000E-04	

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/47/46 PAGE1B3

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CCB	CHEMNAME = CALCIUM CARBIDE	PATHCODE = RR C
MOLEWT =	64.10	NFP =
DENSITY =	2220.	SHSTATE=S
CRHO =		LOLRBND=
AVIS =		LVUPRND=
LTHCNTMP=		BCON =
LOHTCPPT=		AHC =
LHCLOBND=		SFTNTMP=
SOLUBPNT=		A =
BVP =		VPUPRND=
BVCP =		OVCP =
HTFUSION=		HTCOWBTN=
HTREACTN=	-0.2022E+07	HTPOLYMR=
TOXINHAL=		INHALCNC=
LATETOX =		ABFLMTMP=
MOLFRAC =		
		CRITTEMP=
		BRHO =
		LOVISTMP=
		LOTHRCND=
		LTCLOBND=
		LHCUPBND=
		INTFTTMP=
		AVP =
		AVCP =
		VHCLOBND=
		HTSOLUTN=
		BURNRATE=
		UPTOXLIM=
		FLMETEMP=

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/47/47 PAGE1B4

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CCC CHEMNAME = CALCIUM CHLORATE PATHCODE = SS

MOLEWT = 207.0	NBP =	NFP = 613.0	CRITPRES=
DENSITY = 2700. (E)	DENSTEMP= 293.1	SHPSSTATE=S	BRHO =
CRHO =	LDUPRBD=	LDLWRBD=	LOVISTMP=
AVIS =	BVIS =	LVUPRBD=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPEND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT= 64.00	SOLUBTMP= 291.1	A = -0.9300E-01(E)	AVP (E)
BVP =	CVP =	VPUPRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCORSTN=	HTSOLUTN= -0.130DE+06(E)
HTREACTN=	HTPOLYMR=	LOFLWLIN=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM= 0.500DE-02
LA*STOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CCH  CHEMNAME = CYCLOHEXANONE
      MOLECW = 98.15  NBP = 429.0  PATHCODE = A  P  O  T  U
      DENSITY = 945.0  DENSTEMP = 293.2  SHPSRATE=L  NFP = 242.0  CRITTEMP = 629.0  CRITPRES = 0.3800E+07
      CRHO = 0.0000E+00  LDUPREND = 333.2  LDWRBND = 273.2  LDVSPRT = 0.2300E-02  BRHO = 1195.  LOVISTMP = 290.5  BRHO = -0.8500
      AVIS = -11.78  BVIS = 1658.  LVUPREND = 353.2  LVLWRBND = 283.2  LOTHRCND = 0.1430  LOVISTMP = 290.5  LOTHRCND = 0.1430
      LTHCNTMP = 293.2  ACON = 0.3135  BCON = -0.5815E-03  LTCUPBND = 308.2  LTCLOBND = 273.2  LTCLOBND = 273.2
      LOHTCPPT = 1830.  LOHTCPTM = 293.2  AHC = 602.2  SHC = 4.187  LHCUPEND = 313.2  LHCUPEND = 313.2
      LHCL08ND = 273.2  SURFTENS = 0.3400E-01  SFTNTEMP = 293.2  INTFTENS = 0.4000E-01(E)  INTFTMP = 293.0  (E
      SOLUBPNT = 5.000  SOLUBTMP = 293.2  A = 8  B = 8.409  AVP = 8.409
      BVP = 1460.  CVP = 0.4004E-01  VPUPREND = 423.2  VPLWRBND = 283.2  AVCP = -0.2554E+05
      BVCP = 489.9  CVCP = -0.1256  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
      HTFUSION = 0.3810E+06  HTCOM3TN = -0.3588E+08  HTSOLUTN = 0.7000E-04
      HTPOLYMR = 1.100  UPFLWLIM = 0.5000E-03  BURNRATE = 0.5000E-02
      TOXINHAL = 50.00  INHALCNC = 1.100  LOTXLIN = 0.5000E-03  UPTOXLIM = 0.5000E-02
      LATETOX = 50.00  ABFLMTMP = 1.100  AIRFUEL = 0.5000E-03  FLMETEMP = 0.5000E-02
      MOLFRAC = 1.100  MOLRATIO = 0.5000E-03  FLMETEMP = 0.5000E-02

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CCL  CHEMNAME = CYANOGEN CHLORIOE      PATHCODE = A  C  I  J  X
MOLEWT = 61.48      NBP = 286.3      NFP = 266.3      CRITTEMP=
OENSITY = 1222.      OENSTEMP= 273.2      SHPSTATE=L      ARHO = 1714.      CRITPRES=
CRHO = 0.00DOE+00      LDUPRENO= 323.2      LOLWRBND= 273.2      LOVISPNT=      LOVISTMP=      BRHO = -1.800
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LOTHRCND= 0.1500      (E)
LTHCNTMP= 285.0      (E) ACON = 0.150D      (E) BCON = 0.0000E+00(E)      LTCUPBND= 290.0      (E) LTCLOBND= 273.0      (E)
LOHTCPPT=      LOHTCPTM=      AHC =      BHC =      LHCUPBND=
LHCLOBND=      SURFTENS= 0.350CE-01(E)      SFTNTMP= 285.0      (E) INTFTERS= 0.40DOE-01(E)      INTFTTMP= 285.0      (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.00      (E)
BVP = 1430.      (E) CVP = 0.000CE+00(E)      VPUPRBND= 290.0      (E) VPLWRBND= 273.0      (E) AVCP = 0.2730E+05
BVCP = 77.04      CVCP = -0.6071E-01      OVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4451E+06      HTCOMBNTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      BURNRATE=
TOXINHAL= 0.5000      (E) INHALCNC=      INHALTME=      LOTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CCN  CHEMNAME = CALCIUM CYANIDE          PATHCODE = SS
MOLEWT = 92.00      NBP =
DENSITY = 1100.      (E) DENSITY = 293.1
CRHO =
AVIS =
LTHCNTP =
LOHTCPPT =
LHCLOBND =
SOLUBPNT =
BVP =
BVCP =
HTFUSION =
HTREACTN =
TOXINHAL = 1.220
LATETOX =
MOLFRAC =

NFP =
SHPSSTATE = S
LDLWRBND =
LVUPRBN =
BCON =
AHC =
SFTNTEMP =
A =
VPUPRBN =
OVCP =
HICOWETN =
LOFLMLIM =
INHALTIME = 1800.
MOLRATIO =

CRITPRES =
BRHO =
LOVISTMP =
LOTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP =
AVCP =
VHCLOBNO =
HTSOLUTN = -0.1300E+06(E)
BURNRATE =
UPTOXLIM = 0.5000E-04(E)
FLMETEMP =
CRITTEMP =
ARHO =
LOVISPT =
LVLWRBND =
LTCUPBND =
BHC =
INTFTENS =
B =
VPLWRBND =
VHCUPBND =
HTDECONP =
UPFLMLIM =
LOTOXLIM =
AIRFUEL =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/47/54 PAGE188

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CCP CHEMNAME = CALCIUM PEROXIDE PATHCODE = 11 RR

MOLEWT = 72.10	NBP =	NFP =	CRITEMP =	CRITPRES =
DENSITY = 2920.	DENSTEMP = 298.1	SHSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LOVISPAT =	LOVISTMP =
AVIS =	BVIS =	LVJPREND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LMCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTMP =
SOLUBPAT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPREND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP = -0.3100E+06	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTIME =	LSTOXLIM =	UPTOXLIM =
LAETOX =	ABFLMTMP =	MOLRATIO =	A.RFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS


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CCR  CHEMNAME = CALCIUM CHROMATE          PATHCODE = SS

MOLEWT = 192.1      NEP      =
DENSITY = 1000.      (E) DENSTEMP= 293.1
CRHO    =
AVIS    =
LTHCNTMP=
LOHTCPPT=
LHCLOB:O=
SOLUBP:T= 11.50      SOLUBTMP= 293.1
BVP      =
BVCP     =
MTFUSION=
MTREACTN=
TOXINHAL= 0.1170E-01  INHALCNC=
LAFETOX  =
MOLFRAC  =

NFP      =
SHPS:ATE=S
LDLW:END=
LVUP:END=
BCON     =
AHC      =
SFTNTMP=
A        = 1.886
VPUP:END=
DVCP     =
HTCON:STN=
LOFL:ALIM=
INHALTME=
MOLRATIO=

CRITTEMP=
ARHO     =
LQVISTMP=
LOTHR:END=
LTCLOBND=
LHCUPB:D=
INTFTIMP=
AVP      = 0.3300E-01
AVCP     =
VHCLOBNO=
HTSOLUIN=
BURNRATE=
UPTOXLIM= 0.5000E-04  0.5000E-03
FLMETEMP=
  
```

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE, (U)
DEC 76 E ATKINSON

F/G 7/2

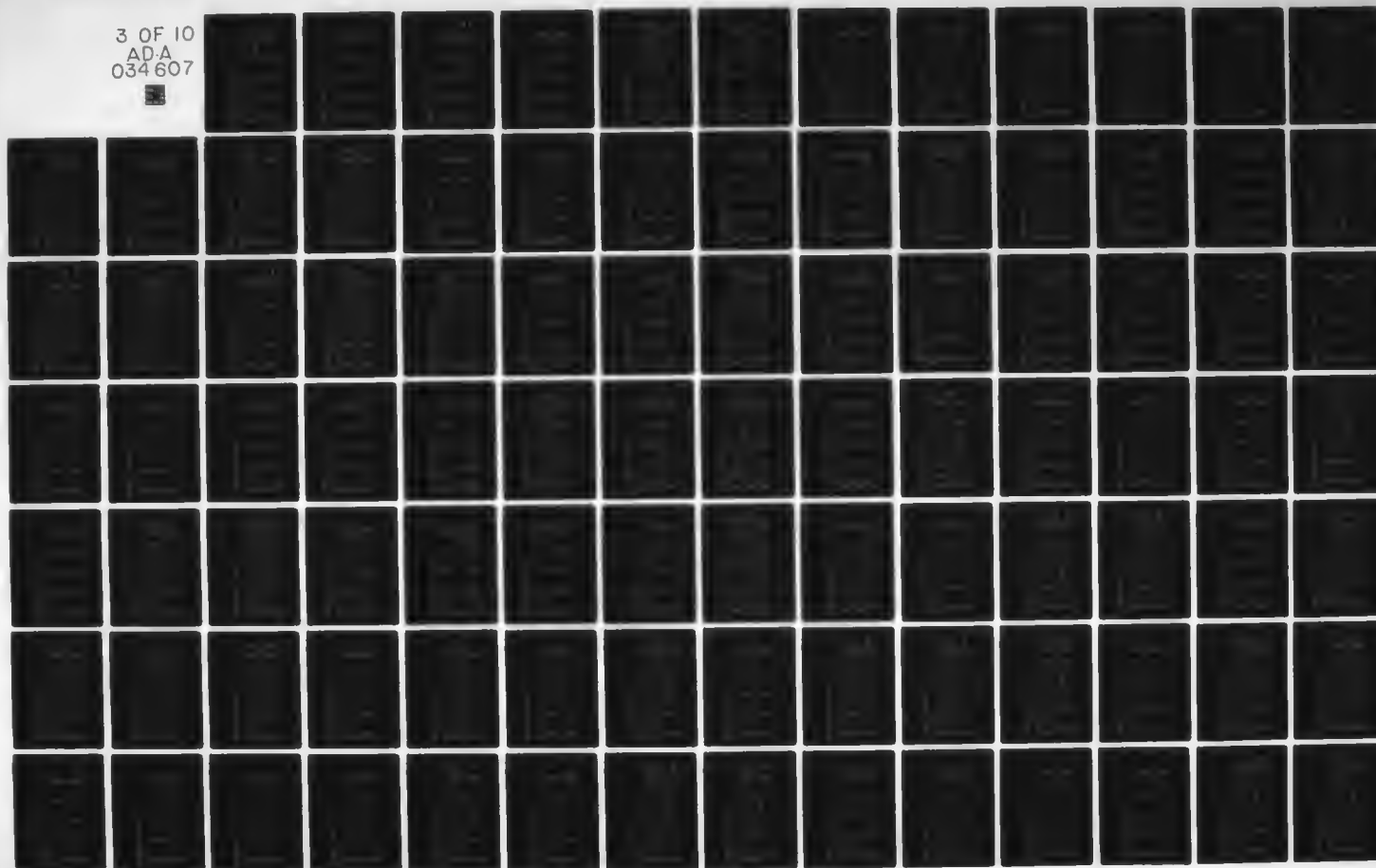
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

3 OF 10
AD-A
034 607



HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/47/56 PAGE190
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S.I. SYSTEM OF UNITS

CCT	CHEMNAME = CREOSOTE, COAL TAR	PATHCODE = A	T	U	X	Y
MOLEWT =	NBP =	353.0	(E)	NFP =	CRITTEMP =	CRITPRES =
DENSITY =	1070. (E) DENSTEMP =	268.1	SHRSTATE=L	ARHO =	1363. (E) BRHO =	-1.000 (E)
CRHO =	0.0000E+00(E) LOUPRENO =	298.1	LOLWRENO =	LOVISPT =	LOVISTMP =	
AVIS =	BVIS =		LVUPRENO =	LVLRBND =	LOTRCND =	
LTHCNTMP =	ACON =		BCON =	LTCUPBND =	LTCLOBND =	
LOHTCPPT =	1675. (E) LOHTCPTM =	293.1	AHC =	1675. (E) BHC =	LHCUPBND =	298.1
LHCLOBND =	283.1 SURFTENS =	0.1500E-01(E)	SFTNTMP =	293.1 INTFTENS =	0.2000E-01(E)	INTFTMP = 293.1
SOLUBPNT =	SOLUBTMP =		A =	B =	AVP =	
BVP =	CVP =		VPUPRENO =	VPLWRBND =	AVCP =	
EVCP =	CVCP =		OVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR =		HTCOMETN =	-0.2900E+08(E)	HTOECONP =	
HTREACTN =	HTPOLYMR =		LOFLMLIM =	UPFLMLIV =	HTSOLUTN =	
TOXINHAL =	INHALCNC =		INHALTME =	LOTOXLIM =	BURNRATE =	
LATETOX =	ABFLMTMP =		MOLRATIO =	0.5000E-03	UPTOXLIM =	0.5000E-02
MOLFRAC =				AIRFUEL =	FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CCY      CHEMNAME = COPPER CYANIDE                      PATHCODE = 11
MOLEWT = 89.56      NBP =                               CRITTEMP=
DENSITY = 2920.      DENSTEMP= 293.1                    BRHO =
CRHO =              LDUPREND=                            LOVISIMP=
AVIS =              BVIS =                                LOTHRCND=
LTHCNTMP=           ACON =                                LTCLOBND=
LQHTCPPT=           LQHTCPTM=                             LHCUPBND=
LHCLOBND=           SURFTENS=                             INTFTTMP=
SOLUBPNT=           SOLUBTMP=                             AVP =
BVP =               CVP =                                 AVCP =
BVCP =              CVCP =                                VHCLOBND=
HTFUSION=           LHTVAPOR=                             HTSOLUTN=
HTREACTN=           HTPOLYMR=                             BURNRATE=
TOXINHAL= 1.250     INHALCNC=                             UPTOXLIN=
LATETOX =           ABFLMTMP=                             FLMETEMP=
MOLFRAC =

```

0.5000E-04(E)

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CDA  CHEMNAME = CACODYLIC ACID  PATHCODE = SS
MOLEWT = 138.0  NBP = 473.0  (E) NFP =  CRITTEMP=  CRITPRES=
DENSITY = 1100.  (E) DENSTEMP= 293.1  SHPSTATE=S  ARHO =  BRHO =
CRHO =  LDUPREND=  LDLWFSND=  LQVISPT=  LQVISTMP=
AVIS =  BVIS =  LVUPREND=  LVLWRBND=  LOTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
LQHTCPPT=  LQHTCPTM=  AHC =  SHC =  LHCUPSND=
LHCLOBND=  SURFTENS=  SFTINTENS=  INTFTTMP=
SOLUBPNT= 66.70  SOLUBTMP= 288.1  A = -62.92  (E) B = 0.4500  (E) AVP =
BVP =  VPUPREND=  VPLWRBND=  AVCP =
BVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  HTCONSTN= -0.1400E+08(E) HTDECOMP=  HTSOLUTN= -0.1300E+06(E)
HTREACTN=  LOFLWLIM=  UPFLWLIM=  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTCXLM=  UPTOXLM= 0.5000E-02
LAFETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CDC  CHEMNAME = CADMIUM CHLORIDE          PATHCODE = SS
MOLEWT = 228.4      NBP =                NFP =
DENSITY = 4050.     DENSTEMP= 298.2      SHPSTATE=S
CRHO =             LDUPREND=             DLWPEND=
AVIS =             BVIS =                LVUPREND=
LTHCNTMP=          ACON =                LTCUPEND=
LQHTCPPT=          LQHTCPTM=             BHC =
LHCLOBND=          SURFTENS=             INTFTEMP=
SOLUBPNT=          SOLUBTMP=             A = -466.2
BVP =              CVP =                 VPLWRBND=
BVCP =             CVCP =                VHCUPBND=
HTFUSCN=           LHTVAPOR=             HTDECOMP=
HTREACTN=          HTPOLYMR=             UPFLMLIM=
TOXINHAL= 0.2000E-01  INHALCNC=          LOTOXLIM= 0.5000E-04(E)
LAFETOX =          ABFLMTMP=             AIRFUEL =
MOLFRAC =

```

```

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CON  CHEMNAME = CHLOROANE          PATHCODE = A   X   Y
MOLEWT = 409.8                    NFP =          CRITTEMP=
DENSITY = 1600.                   SHPSTATE=L      ARHO =          CRITPRES=
CRHO = 0.0000E+00(E) LDUPRNO= 298.1  LOLWRBND= 283.1  LOVISRNT= 1893.  (E) BRHO = -1.000 (E)
AVIS = -11.38 (E) 8VIS = 2800. (E) LVUPRND= 423.1  LVLWRBND=          LQTHRCNO= 0.1744 (E)
LTHCNTMP= 293.1  ACON = 0.1744 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1  LTCLOBNO= 288.1
LQHTCPPT= 1256. (E) LQHTCPTM= 293.1  AHC = 1256. (E) BHC =          LHCUPBNO= 298.1
LHCLOBNO= 288.1  SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1  INTFTENS=          INTFTIMP= 293.1
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 21.05
8VP = 7880.  CVP = -0.1500  VPUPRND= 453.1  VPLWRBND=          AVCP =
8VCP =          CVCP =          VHCUPBND=          VHCLOBNO=
HTFUSION=          LMTVAPOR=          HTCO::STN= -0.9300E+07(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 0.7000  UPFLMLIN= 5.000  BURNRATE=
TOXINHAL= 0.2700E-01  INHALCNC= 0.1100  INHALTME= 1800.  LOTCXLIN= 0.5000E-04  UPTOXLIM= 0.5000E-03
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CES  CHEMNAME = CUPRIETHYLENEDIAMINE SOLUTION.  PATHCODE = A  P  C
MOLEWT =      NBP      = 373.0  (E) NFP      =      CRITTEMP=
DENSITY = 1100.  (E) DENSTEMP= 293.1  SHPSTATE=L  ARHO      =
CRHO      =      LDUPRND=      LOVISPRT=      LOVISTMP=
AVIS      =      BVIS      =      LVUPRND=      LVLCRND=
LTHCNTMP=      ACON      =      LTCUPRND=      LTCLOBND=
LOHTCPPT=      LOHTCPTM=      AHC      =      LHCUPEND=
LHCLOBND=      SURFTENS=      SFTNTMP=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =
BVP      =      CVP      =      VPUPRND=      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMBTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIN=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      UPTOXLIN=
LATETOX  =      ABFLMTMP=      MOLRATIO=      FLMETEMP=
MOLFRAC  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CF8 CHEMNAME = CADMIUM FLUOROBORATE PATHCODE = A P

MOLECWT = 286.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1600.	OENSTEMP = 293.1	SHPSSTATE=L	ARHC = 1800.	BRHO = 0.0000E+00
CRHO = 0.0000E+00	LDUPREND = 298.1	LDLWREND =	LOVISPLT =	LOVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLRSD =	LOTHRCND =
LTHCNTMP =	ACON =	BCDN =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPREND =	VPLWRSD =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOYSTN =	HTDECOMP =	HTSDLUTN =
HTREACTN =	HTPOLYMR =	LDFLCLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL = 0.1570E-01	INHALCNC =	INHALTWE =	LOTOXLIN =	UPTOXLIM = 0.5000E-04
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CGE  CHEMNAME = CRESYL GLYCIDYL ETHER          PATHCODE = A   T   U   X   Y
MOLECWT = 164.0      NBP      = 532.0      (E) NFP      =      CRITTEMP=
DENSITY = 1090.      DENSTEMP= 293.1      SHPSTATE=L      ARHO      =      CRITPRES=
CRHO      = 0.0000E+00(E) LDUPREND= 292.1      LDUPREND= 278.1      LOVISPNT=      LQVISTMP=
AVIS      =      8VIS      =      LVUPREND=      LVLWRSND=      LOTHRCND=      0.1512      (E)
LTHCNTMP= 293.1      ACON      = 0.1512      (E) BCON      = 0.0000E+00(E) LTCUPSD= 298.1      LTCLOBND= 283.1
LQHTCPPT= 2093.      (E) LOHTCPTM= 293.1      AHC      = 2093.      (E) EHC      =      LHCUPEND= 298.1
LHCLOBND= 283.1      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
BVP      =      CVP      =      VPUPRSND=      VPLWRSND=      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPSD=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN= -0.3840E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM=      LPFLMLIN=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
CHA  CHEMNAME = CYCLOHEXYLAMINE          PATHCODE = A P O
MOLEWT = 99.18      NBP = 407.7      NFP = 255.5      CRITTEMP= 615.0      CRITPRES=
DENSITY = 865.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1134.      BRHO = -0.9200
CRHO = 0.0000E+00      LOUPRENO= 373.2      LDLEBND= 273.2      LOVISPNT=      LOVISTWP=
AVIS =      BVIS =      LVUPESNO=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      LTCUPBND=      LTCLOBND=
LOHTCPPT= 2300.      (E) LOHTCPTM= 293.0      (E) AHC = 2300.      (E) SHC = 0.0000E+00(E) LHCUPENO= 300.0      (E)
LHCLOBNO= 273.0      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUSTMP=      A =      E =      AVP = 9.985
BVP = 2030.      CVP = C.4004E-01      VPUPRSND= 413.2      VPLWRBND= 293.2      AVCP =
BVCP =      CVCP =      OVCP =      VHCUPBND=      VHCLOBND=
HTFUSIGN=      LHTVAPOR= 0.3668E+06      HTCOMSTN= -0.4200E+08(E) HTDECCMP=      HTSOLUTN= -0.1000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 68.00      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/48/09 PAGE200

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CHC	CHEMNAME = CHARCOAL	PATHCODE = II	
MOLEWT = 12.00	NBP =	NFP =	CRITTEMP=
DENSITY = 2000.	DENSTEMP= 293.1	SHPSRATE=S	BRHO =
CRHO =	LDUPREND=	LDLWPREND=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOB'D=	SURFTENS=	SFTNIEMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPREND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMETN= -0.3280E+08	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=
LAETOX =	ABFLWTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CHD  CHEMNAME = CHLOROHYDRINS (CRUDE)      PATHCODE = A P Q
MOLEWT = NSP =                               NFP = CRITEMP=
DENSITY = 1180.    OENSTEMP= 293.2          SHPS:ATE=L    ARHO = 1180.    (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LOUPREND= 300.0 (E) LOLWEND= 273.0 (E) LOVISPT= LQVISTMP=
AVIS = BVIS = LVUPREND= LVLRB:D= LOTHRCND=
LTHCNTMP= ACON = 9CON = LTCUPB:D= LTCLOBND=
LOHTCPPT= 2000. (E) LOHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPEND= 300.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= SFTNTEMP= INTFTTMP=
SOLUBPNT= 6.000 SOLUBTMP= 298.2 A = B = AVP = 11.28 (E)
BVP = 2467. (E) CVP = 0.0000E+00(E) VPUPREND= 350.0 (E) VPLA:RB:D= 273.0 (E) AVCP =
BVCP = CVCP = OVCP = VHCUPB:D= VHCLOSND=
HTFUSION= LHTVAPOR= 0.4100E+06(E) HTCO:STN= -0.1884E+08(E) HTDECCNP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= 3.800 CPEFLMLIM= 21.00 BURNRATE= 0.4333E-04
TOXINHAL= 5.000 INHALCNC= 10.00 INHALTIME= 1800. LOTCXLIM= 0.5000E-04 UPTCXLIM= 0.5000E-03
LAETOX = ABFLWTMP= MOLRATIO= AIRFUEL = FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

CHN  CHENNAME = CYCLOHEXANOL
MOLEWT = 100.2      NBP = 434.0      CRITTEMP = 296.8      CRITPRES = 0.3700E+07
DENSITY = 947.0      DENSTEMP = 293.2      SMAS ATEL = 1171      BRNO = -0.7600
CRHO = 0.0000E+00    LDUP END = 293.2      LE A TEL = 283.2      CRITTEMP = 293.2
AVIS = -21.66        BVIS = 56.0          (LUP)SAS = 323.2      (LUP)SAS = 0.1500      IE
LTHCNTMP = 310.0      (E) ACCN = 0.1500      (E) BCCN = 0.0000E+00      (E) LTHCNTMP = 300.0      (E)
LOHTCPT = 2100        (E) LOHTCPT = 310.0      (E) AHC = 2100      (E) SMC = 0.0000E+00      (E) LTHCNTMP = 330.0      (E)
LHCLOSNO = 300.0      (E) SURFTENS = 0.3420E+01      SFTN ENDS = 288.4      INFTTEMP = 0.5000E+01      (E) INFTTEMP = 310.0      (E)
SOLUBPNT = 4.300      SOLUBTMP = 288.2      A = 8          A2P = 10.14      (E)
BVP = 2237.          (E) CVP = 0.0000E+00      (E) VFLP ENDS = 430.0      (E) AVCP = -0.2412E+05
BVCP = 556.8          CVP = -0.1675          DVCP = 0.0000E+00      (E) VFLCENDS = 250.0
HTFUSION = 0.1696E+05    LHTVAPOR = 0.4504E+06      HTCCENDS = -0.3710E+08      (E) HTSOLUTN =
HTREACTN = HTPOLYWR = LOFLVLIN = BURNRATE =
TOXINHAL = 50.00        INHALTIME = UPTOXLIM = 0.5000E+02
LATETOX = ABFLMTMP = MOLRATIO = FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CHP  CHEMNAME = CYCLOHEXANONE PEROXIDE      PATHCODE = A  T  L  X  Y
MOLEWT =      NBP =      DENSTENP= 293.1      CRITTENP=      CRITPRES=
DENSITY = 1050.      SHPSLATE=L      APC =      BRHO =
CRHO =      LDUPREND=      BVIS =      LOVISPRT=      LOVISTMP=
AVIS =      LVUPREND=      BCON =      LVLWRBND=      LOTHRCND=
LTHCNTMP=      LOHTCPTN=      AHC =      LTCUPBND=      LTCLOEND=
LOHTCPPT=      SURFTENS= 0.3000E-01(E) SFTNTMP= 293.1      INTFTENS= 0.3500E-01(E) INTFTTMP= 293.1
LHCLOBNO=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VPUPREND=      PLWRBND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONBTDN= -0.3300E+08(E) HTDECCND=      HTSOLUTN=
HTREACTN=      LQFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      UPTOXLIM= 0.5000E-03      0.5000E-02
LATETOX =      ABFLWTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PATHCODE = A O

[illegible]

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/48/20 PAGE206
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CHY	CHEMNAME = CALCIUM HYPOCHLORITE	PATHCODE = SS	
MOLEWT =	175.0	NBP =	CRITPRES=
DENSITY =	2350.	DENSTEMP= 293.2	BRHO =
CRHO =		LOUPRND=	LOVISTMP=
AVIS =		BVIS =	LOTHRCNO=
LTHCNTMP=		ACON =	LTCLOBND=
LOHTCPPT=		LOHTCPTM=	LHCUPBNO=
LHCLOBNO=		SURFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=	AVP =
BVP =		CVP =	AVCP =
BVCP =		CVCP =	VHCLOBND=
HTFUSION=		LHTVAPOR=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	BURNRATE=
TOXINHAL=		INHALCNC=	UPTOXLIM=
LATETOX =		ABFLMTMP=	AIRFUEL =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CID CHEMNAME = COPPER IODIDE

PATHCODE = 11

MOLECWT = 190.4	NBP = 1563.	NFP = 878.0	CRITTEMP=	CRITPRES=
DENSITY = 5620.	OENSTEMP= 293.1	SHPSRATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LOLRBND=	LOVISPAT=	LOVISIMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LOHTCPPT=	LOHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTES=	INTFTIMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VPUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	OVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOWSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	UPFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTNE=	LOTOXLIM=	UPTOXLIM= 0.5000E-04
LAFETOX =	ABFLWIMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CIT CHEMNAME = CITRIC ACID PATHCODE = SS

MOLEWT = 192.1	NBP =	NFP = 426.0	CRITTEMP =	CRITPRES =
DENSITY = 1540.	DENSTMP = 293.1	SHPSRATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWREND =	LOVISPNT =	LOVISTMP =
AVIS =	8VIS =	LVUPREND =	LVLARGND =	LOTHRCND =
LTHCNTMP =	ACON =	8CON =	LTCUPEND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	LHCUPEND =	LHCUPEND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 146.0	SOLUBTMP = 293.1	A = -587.3	B = 2.500	AVP =
BVP =	CVP =	VPUPREND =	VLARGND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPEND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.2050E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLTLIM =	UPFLTLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTNE =	LOTOXLIM = 0.1500E-01(E)	UPTOXLIM =
LAFETOX =	A8FLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CLC  CHEMNAME = CALCIUM CHLORIDE          PATHCODE = SS
MOLEWT = 111.0      NBP =
DENSITY = 2150.     DENSTEMP = 293.1      SHPSTATE=S
CRHO =
AVIS =
LTHCNTMP =
LQHTCPT =
LHCLOBND =
SOLUBPNT = 74.50   SOLUBTMP = 293.1      A = -145.4
EVP =
BVCP =
HTFUSION =
HTREACTN =
TOXINHAL =
LARETOX =
MOLFRAC =

CRITPRES =
BRHO =
LOVISTMP =
LOTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN = -0.6790E+06
BURNRATE =
UPTOXLIN = 0.5000E-03
FLMETEMP =

CRITTEMP =
ARHO =
LOVISPT =
VLWRBND =
LTCUPBND =
BRC =
INTERLS =
B = 0.7500
VPLWRBND =
VHCUPBND =
HTDECCMP =
UPFLMLIN =
LOTOXLIN = 0.5000E-03
AIRFUEL =
  
```

PROPERTY FILE FIELDS VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CLD  CHEMNAME = COLLODION          PATHCODE = A  T  U  V  W
MOLEWT =          NBP =          307.0      CRITTEMP=
DENSITY = 700.0      DENSTEMP= 293.1      SHPSSTATE=L      BRHO =
CRHO =          LDUPRNO=          BVIS =          ACON =          LOHTCPTM=          LQVISTMP=
AVIS =          LTHCNTMP=          LQHCLOBND=          SURFTENS=          SOLUBTMP=          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          NBP =          307.0      CRITTEMP=          CRITTEMP=          CRITPRES=
          DENSTEMP= 293.1      SHPSSTATE=L      BRHO =          BRHO =
          LDUPRNO=          BVIS =          ACON =          LOHTCPTM=          LQVISTMP=
          BVIS =          ACON =          LOHTCPTM=          SURFTENS=          SOLUBTMP=          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          LDUPRNO=          BVIS =          ACON =          LOHTCPTM=          SURFTENS=          SOLUBTMP=          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          BVIS =          ACON =          LOHTCPTM=          SURFTENS=          SOLUBTMP=          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          ACON =          LOHTCPTM=          SURFTENS=          SOLUBTMP=          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          LOHTCPTM=          SURFTENS=          SOLUBTMP=          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          SURFTENS=          SOLUBTMP=          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          SOLUBTMP=          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          BVP =          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          BVCP =          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          HTFUSION=          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          HTREACTN=          TOXINHAL=          LAFETOX =          MOLFRAC =
          TOXINHAL=          LAFETOX =          MOLFRAC =
          LAFETOX =          MOLFRAC =
          MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CLX  CHEMNAME = CHLORINE
      MOLECWt = 70.91      NBP = 239.1      NFP = 172.0      CRITTEMP= 417.0      CRITPRES= 0.7704E+07
      DENSITY = 1424.      OENSTEMP= 288.2      SHPSIATE=L      ARHO = 2170.      BRHO = -2.600
      CRHO = 0.0000E+00      LOUPREND= 293.2      LOLWRBND= 233.2      LOVISPT=      LQVISTMP=
      AVIS =      BVIS =      LVUPRSNO=      LVLWRBND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBNO=
      LOHTCPPT= 544.3      LOHTCPTM= 293.2      AHC = -69.42      EHC = 2.093      LMCUPBND= 293.2
      LHCLOBND= 273.2      SURFTENS= 0.2655E-01      SFTNTMP= 237.9      INTFTENS=      INTFTTMP=
      SOLUBPNT= 0.6500      SOLUBTMP= 298.2      A =      B =      AVP = 9.543
      BVP = 1086.      CVP = 0.4004E-01      VPUPREND= 283.2      VPLWRBND= 223.2      AVCP = 0.2673E+05
      BVCP = 32.36      CVCP = -0.2721E-01      OVCP = 0.0000E+00      VHCUPBND= 250.0      VMCLOBND=
      HTFUSION=      LHTVAPOR= 0.2876E+06      HTCO:GIN=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLYLM=      BURNRATE=
      TOXINHAL= 1.000      INHALCNC= 3.000      INHALTME= 300.0      LOTOXLM=      UPTOXLM=
      LAIETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CMA	CHEMNAME = CHROMIC ANHYDRIDE		PATHCODE = SS	
MOLECW	=	100.0	NFP	=
DENSITY	=	2700.	SHSTATE	= S
CRHO	=		LDLWRBND	=
AVIS	=		LVUPRND	=
LTHCNTMP	=		BCON	=
LOHTCPPT	=		AHC	=
LHCLOBND	=		SFTNTMP	=
SOLUBPNT	=		A	= 79.05
BVP	=		VPUPRND	=
BVCP	=		OVCP	=
HTFUSION	=		HTCOWSTN	=
HTREACTN	=		LOFLMLIM	=
TOXINHAL	=		INHALTME	=
LATETOX	=		ABFLMTMP	=
MOLFRAC	=			

CRITPRES=		CRITTEMP=	
BRHO =		LRHO =	
LOVISTMP=		LOVISINT=	
LOTHRCND=		LVLWRBND=	
LTCLOBNO=		LTCUPBND=	
LHCUPBND=		BHC =	
INTFTMP=		INTFTENS=	
AVP =	0.3000	B =	
AVCP =		VPLWRBND=	
VHCLOEND=		VHCUPBND=	
HTSOLUTN=		HTDECCND=	
BURNRATE=		UPFLMLIM=	
UPTOXLIM=	0.5000E-04	LOTOXLIM=	0.5000E-03
FLMETEMP=		AIRFUEL =	

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CMB CHEMNAME = CADMIUM BROMIDE PATHCODE = SS

MOLECW = 344.3	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1100.	(E) DENSITY = 293.1	SHRSTATE = S	APHO =	BRHO =
CRHO =	LDUPRND =	LDLWRBND =	LOVISPAT =	LOVISIMP =
AVIS =	BVIS =	LVUPRND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 98.80	SOLUBTMP = 293.1	A = -522.8	B = 2.120	AVP =
BVP =	CVP =	VPUPRND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP =	HTSOLUTN = -5400.
HTREACTN =	HTPOLYMER =	LOFLWLIM =	LPFLWLIM =	BURNRATE =
TOXINHAL = 0.1300E-01	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-04(E
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CMC  CHEMNAME = CHROMYL CHLORIDE          PATHCODE = A  O
MOLEWT = 154.9      NBP = 389.0      NFP = 176.7      CRITPRES=
DENSITY = 1960.      DENSTEMP= 293.1      SHPSSTATE=L      ASHO = 2470.      BRHO = -1.850
CRHO = 0.0000E+00      LDUPREND= 303.1      LOLWPREND= 273.1      LOVISSTMP= 293.1
AVIS = -11.61      BVIS = 1320.      LVUPREND= 298.1      LVLRBND= 283.1      LQTHRCND= 0.1512 (E
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 283.1
LOHTCPPT= 1926.      (E) LOHTCPTM= 293.1      AHC = 698.6 (E) BHC = 4.187 (E) LHCUPBND= 303.1
LHCLOBNO= 283.1      SURFTENS= 0.3661E-01      SFTNTEMP= 292.1      INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 10.45
BVP = 2118.      LVP = -0.1500      VPUPREND= 393.1      VPLWFBND= 273.1      AVCP = 0.3768E+05(E
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) OVCP = 0.0000E+00(E) VHCUPBND= 320.0      VHCLGBND= 270.0
HTFUSIGN=          LHTVAPOR= 0.2620E+06      HTCOASTN=          HTSOLUTN= -0.6480E+06
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTIME=          LOTOXLIM=          UPTOXLIM= 0.5000E-04(E
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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CME      CHEMNAME = CHLOROMETHYL METHYL ETHER      PATHCODE = A  O  T  U  V  W  X  Y
MOLEWT = 80.50      NBP = 333.0      NFP = 169.7      CRITTEMP=      CRITPRES=
DENSITY = 1070.      OENSTEMP= 298.1      SHPSTATE=L      ARHO = 1455.      BRHO = -1.300
CRHO = 0.0000E+00      LOUPRNO= 303.1      LOLWRNO= 273.1      LOVISPT= 0.2100E-03(E) LOVISTMP= 293.1
AVIS = -11.21      (E) BVIS = 800.0      (E) LVUPRND= 303.1      LVLWRSD= 273.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBD= 300.1      LTCLOBND= 273.1
LOHTCPPT= 1884.      (E) LOHTCPTM= 293.1      AHC = 656.7      (E) EHC = 4.187      (E) LHCUPBND= 303.1
LHCLOBNO= 273.1      SURFTENS= 0.3000E 01(E) SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPAT=      SOLUBTMP=      A =      B =      AVP = 9.528      (E)
BVP = 1506.      (E) CVP = -0.1500      (E) VPUPRNO= 333.1      VPLWRSD= 293.1      AVCP = 0.2895E+03(E)
BVCP = 187.6      (E) CVCP = -0.7214E-01(E) OVCP = 0.5355E-05(E) VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3580E+06(E) HTCONVSTN= -0.1700E+08(E) HTDECCMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM=      UPFLWLM=      BURNRATE= 0.5010E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM= 0.5000E-03      UPTOXLM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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CMH  CHEMNAME = CUMENE HYDROPEROXIDE
      MCLEWT =      NBP =      PATHCOOE = A T U X Y
      DENSITY = 1030.  OENSTENP= 298.1  NFP = 264.0  CRITTEMP=
      CRHO = 0.0000E+00(E) LOUFRNO= 298.1  LDLWEND= 283.1  ARHO = 1328.  (E) BRHO = -1.000  (E)
      AVIS = -20.40  (E) BVIS = 4500.  (E) LVUPRND= 298.1  (E) LVLRBID= 283.1  LQVISTMP= 288.1  LQVISTMP=
      LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1  LVLWRBID= 283.1  LOTHRCNO= 0.1512  (E)
      LQHTCPPT= 1884.  (E) LQHTCPTM= 293.1  AHC = 1884.  (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1  LTCLOBND= 283.1
      LHCLOBNO= 283.1  SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.1  INTFTENS= 0.3000E-01(E) INTFTTMP= 293.1  LHCUPBND= 298.1
      SOLUBPNT=      A =      B =      AVP = 11.20
      BVP = 2842.  CVP = -0.1500  VUPRNO= 313.1  VPLWPBID= 288.1  AVCP =
      BVCP =      CVCP =      VHCUPBID=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCCOBTN= -0.3100E+08(E) HTDECONP= -0.1990E+07  HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLYLM= 0.9000  LPFLWLM= 6.500  BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM= 0.5000E-04  UPTOXLM= 0.5000E-03
      LATETOX =      ABFLMTMP=      MCLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CMN      CHEMNAME = CADMIUM NITRATE      PATHCODE = SS
MOLEWT = 308.5      NBP =      NFP = 332.0
DENSITY = 2450.      DENSTEMP= 293.1      SHPSTATE=S
CRHO =      LDUPREND=      LDLWEND=
AVIS =      BVIS =      LVUPREND=
LTHCNTMP=      ACON =      LTCUPEND=
LOHTCPPT=      LOHTCPTM=      BHC =
LHCLOBND=      SURFTENS=      INTFTENS=
SOLUBPNT= 122.0      SOLUBTMP= 273.1      A = -276.8      B = 1.460
BVP =      CVP =      VPLWRBND=
BVCP =      CVCP =      DVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTDECCP=      HTSOLUTN= 0.6910E+05
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=
TOXINHAL= 0.1450E-01      INHALCNC=      LOTOXLIM=      UPTOXLIM= 0.5000E-04(E
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =
CRITPRES=
BPHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP =
AVCP =
VHCLOBND=
BURNRATE=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CMO  CHEMNAME = CARBON MONOXIOE      PATHCODE = A  B  C  O  E  F  G
MOLEWT = 28.00      NBP = 81.70      NFP = 74.00      CRITTEMP= 123.0      CRITPRES= 0.3502E+07
DENSITY = 791.0      DENSTEMP= 81.65      SHPSTATE=G      APO = 873.1      BRHO = -1.000
CRHO = 0.0000E+00      LOUPRNO= 88.15      LOLWRNO= 74.15      LOVISPT= 0.1760E-04      LOVISTMP= 80.15
AVIS = -13.86      BVIS = 233.0      LVUPRNO= 98.15      LVLWRB.D= 78.15      LQTHRCND= 0.1256      (E)
LTHCNTMP= 90.15      ACON = 0.2829      (E) BCON = -0.1745E-02(E)      LTCUPEND= 100.1      LTCLOBND= 83.15
LQHTCPPT= 2135.      LQHTCPTM= 76.15      AHC = 2135.      BHC = 0.0000E+00      LHCUPEND= 83.15
LHCLOBND= 74.15      SURFTENS= 0.9800E-01      SFTNTMP= 80.15      INTFTENS=      INTFTTMP=
SOLUBPNT= 0.4000E-02      SOLUBTMP= 273.1      A * =      B =      AVP = 9.319
BVP = 352.4      CVP = -0.1500      VPUPRNO= 93.15      VPLWRBND= 74.15      AVCP = 0.2931E+05
BVCP = 0.0000E+00      CVCP = 0.0000E+00      OVCP = 0.0000E+00      VHCUPRNO= 500.0      VHCLOBND= 300.0
HTFUSION=      LHTVAPOR= 0.2160E+06      HTCORSTN= -0.1010E+08      HTOECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 12.00      UPFLMLIN= 75.00      BURNRATE=
TOXINHAL= 50.00      INHALCNC= 400.0      INHALTME= 900.0      LOTOXLIN=      UPTOXLIM=
LAETOX =      ABFLMTMP= 2701.      (E) MOLRATIO= 1.500      (E) AIRFUEL = 2.451      (E) FLMETEMP=
MOLFRAC =

```


HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/48/45 PAGE221

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CMS	CHEMNAME = CADMIUM SULFATE	PATHCODE = SS
MOLECW	= 208.5	NBP =
DENSITY	= 4700.	DENSTMP = 293.1
CRHO	=	LDUPRND =
AVIS	=	BVIS =
LTHCNTMP	=	ACON =
LOHTCPPT	=	LOHTCPTM =
LHCLOBND	=	SURFTENS =
SOLUBPNT	= 75.50	SOLUBTMP = 273.1
BVP	=	CVP =
BVCP	=	CVCP =
HTFUSION	=	LHTVAPOR =
HTREACTN	=	HTPOLYMR =
TOXINHAL	= 0.2150E-01	INHALCNC =
LATETOX	=	ABFLMTMP =
MOLFRAC	=	
		NFP =
		SHPSSTATE = S
		LDLWPRND =
		LVUPRND =
		BCON =
		AHC =
		SFTNTMP =
		A = 61.02
		VPUPRND =
		DVCP =
		HTCONSTN =
		LOFLMLIM =
		INHALTME =
		MOLRATIO =
		CRITTEMP =
		ARHO =
		LOVISPR.T =
		LVLWRND =
		LTCUPB.D =
		BHC =
		INTFTERS =
		B = 0.5300E-01
		VPLWRSD =
		VHCUPB.D =
		HTDECOMP =
		UPFLMLIN =
		LOTOXLIM =
		AIRFUEL =
		CRITPRES =
		BRHO =
		LOVISIMP =
		LOTHROND =
		LTCLOBND =
		LHCUPEND =
		INTFTIMP =
		AVP =
		AVCP =
		VHCLOBND =
		HTSOLUTN = -0.2150E+06
		BURNRATE =
		UPTOXLIM = 0.5000E-04(E
		FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CNI      CHEMNAME = COPPER NITRATE      PATHCODE = SS
MOLECWT = 241.6      NBP =      387.7      CRITPRES=
DENSITY = 2320.      DENSTEMP= 293.1      BRHO =
CRHO =      LDUPREND=      LQWREND=      LQVISTMP=
AVIS =      BVIS =      LVUPREND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTMP=      INTFTTMP=
SOLUBPNT= 124.0      SOLUBTMP= 293.1      AVP =      2.100
BVP =      CVP =      VPUPREND=      VPLWREND=      AVCP =
BVCP =      CVCP =      DVCN =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCORSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      UPTOXLIM=      0.5000E-03
LAFETOX =      ABFLWTMP=      MOLRATIO=      LOTOXLIM=      0.5000E-02
MOLFRAC =
  
```


☐ Yes
☒ No
☐ Not sure

CRITTEND=

 Fe_2O_3

LOVISP.T=

LVLVAS.2-

LTCUP51.D=

C
H
(1)

INTFE,S=

" 33

VPLWRSI.C=

VHCU2B:0=

ИТОГО: 2 =

UPFILMLIM=

LOTGXLM=

AIRFUEL =

MOLECWT =	160.6	=	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	1000.	(E)	DENSTEMP=	293.1	SHPSSTATE=S	=	ARHO =	BRHO =
CRHO =			LDUPRBD=		LDLWRBD=		LOVISPNT=	LOVISTMP=
AVIS =			BVIS =		LVUPRBD=		LVLWRBD=	LOTHRCND=
LTHCNTMP=			ACON =		BCON =		LTCUPBD=	LTCLOBND=
LQHTCPPT=			LQHTCPTM=		AHC =		BHC =	LHCUPBND=
LHCLGBND=			SURFTENS=		SFTNTMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=	0.2300E-02		SOLUBTMP=	293.1	A =	D.23DOE-02	B =	AVP =
BVP =			CVP =		VUPRBD=		VPLWRBD=	AVCP =
BVCP =			CVCP =		DVCP =		VHCUPBD=	VHCLGBND=
HTFUSION=			LHTVAPOR=		HTCOBSIN=		HTDECOMP=	HTSOLUTN=
HTREACTN=			HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=			INHALCNC=		INHMLTME=		LOTOXLIM=	UPTOXLIM=
LATETOX =			ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CON      CHEMNAME = COBALT NITRATE      PATHCODE = SS
MOLECWt = 291.0      NBP      =      NFP      = 328.0      CRITTEMP=
DENSITY = 1540.      DENSTEMP= 293.1      SHPSTATE=S      ARHO      =
CRHO      =      LDUPRND=      BVIS      =      LVUPRND=      LOVISFMT=
AVIS      =      ACON      =      LOHTCPTM=      SURFTENS=      INTFTIMP=
LTHCNTMP=      LOHTCPTM=      SURFTENS=      SOLUBTMP= 293.1      A      = -96.28      B      = 0.6600      AVP      =
LHCLOBND=      SOLUBPNT= 97.20      CVP      =      VPUPRND=      VPLWRBD=      AVCP      =
BVP      =      CVCP      =      LHTVAPOR=      HTCCOSTN=      HTSOLUTN= 0.7100E+05
BVCP      =      LHTVAPOR=      HTPOLYMR=      LOFLMLIN=      UPFLMLIN=      BURNRATE=
HTFUSION=      LHTVAPOR=      HTPOLYMR=      INHALCNC=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
HTREACTN=      INHALCNC=      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
TOXINHAL=
LATETOX =
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/48/52 PAGE227

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

COP CHEMNAME = COPPER ACETATE PATHCODE = SS

MOLEWT = 199.6	NBP =	NFP = 388.0	CRITTEMP =	CRITPRES =
DENSITY = 1900.	DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LWLWRSND =	LQVISSTMP =	LQVISSTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRSND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTMP =	INTFTMP =
SOLUBPNT = 7.200	SOLUBTMP = 293.1	A = -69.02	B = 0.2600	AVP =
BVP =	CVP =	VPUPRND =	VPLWRSND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBNO =
HTFUSION =	LHTVAPOR =	HTCOVSTN =	HTOECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLM =	UPFLWLM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-02
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PATHCODE = 11

MOLECWT =	362.5	NBP =		NFP =	366.0	CRITTEMP=	CRITPRES=
DENSITY =	1474.	DENSTEMP=	293.1	SHPSTATE=S		ARHO =	BRHO =
CRHO =		LDUPRBD=		LDLWRBND=		LOVISPT=	LOVISMP=
AVIS =		BVIS =		LVUPRBD=		LVLWRBND=	LOTHRCND=
LTHCNTMP=		ACON =		BCON =		LTCUPBND=	LTCLOBND=
LOHTCPT=		LOHTCPTM=		AHC =		BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTMP=		INTFTENS=	INTFTIMP=
SOLUBPNT=		SOLUBTMP=		A =		B =	AVP =
BVP =		CVP =		VPUPRBND=		VPLWRBND=	AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMSTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=
LATETOX =		ABFLMTMP=		MOLRATIO=			FLMETEMP=
MOLFRAC =						0.6000E-04	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

COX  CHEMNAME = CADMIUM OXIDE                PATHCODE = II
MOLEWT = 128.4      ABP      =      NFP      =      CRITTEMP=
DENSITY = 6950.     DENSTEMP= 293.1      SHPSRATE=S      BRHO      =
CRHO      =      LOUPREND=      LDLWREND=      LOVISIMP=
AVIS      =      BVIS      =      LVUPPEND=      LOTHRCND=
LTHCNTMP=      ACON      =      BCON      =      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC      =      LHCUPEND=
LHCLOBND=      SURFTENS=      SFTNTEMP=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
BVP      =      CVP      =      VPUPPSND=      AVCPU      =
BVCP      =      CVCP      =      DVCP      =      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      BURNRATE=
TOXINHAL= 0.1750E-01  INHALCNC= 0.1750E-01  INHALTME= 1800.  UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      FLMETEMP=
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/48/55 PAGE230

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPA CHEMNAME = COPPER ARSENITE PATHCODE = 11

MOLECWT =	277.4	NBP =		NFP =		CRITPRES=	
DENSITY =	1100.	(E) DENSTEMP=	293.1	SHPSSTATE=		BRHO =	
CRHO =		LOUPREND=		LDLWREND=		LOVISIMP=	
AVIS =		BVIS =		LVUPREND=		LQTHRCND=	
LTHCNTMP=		ACDN =		BCON =		LTCLOBND=	
LOHTCPPT=		LOHTCPTM=		AHC =		LHCUPBND=	
LHCLOBNO=		SURFTENS=		SFTNIEMP=		INTFTTMP=	
SOLUBPNT=		SOLUBTMP=		A =		AVP =	
BVP =		CVP =		VPUPREND=		AVCP =	
BVCP =		CVCP =		DVCP =		VHCLOBND=	
HTFUSIGN=		LHTVAPOR=		HTCONSTN=		HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=		BURNRATE=	
TOXINHAL=	0.4000E-01	INHALCNC=		INHALTME=		UPTOXLIM=	0.5000E-03
LATETOX =		ABFLWTMP=		MOLRATIO=		FLMETEMP=	
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPB  CHEMNAME = COPPER BROMIDE                PATHCODE = SS
MOLEWT = 223.4      NBP      =      771.0
DENSITY = 4770.      DENSTEMP= 293.1      SHPSTATE=S
CRHO      =      LDUPREND=
AVIS      =      BVIS      =      LVUPREND=
LTHCNTMP=      ACCN      =      BCON      =      LTCUPBND=
LQHTCPPT=      LQHTCPTM=      AHC      =      EHC      =
LHCLOBND=      SURFTENS=      SFTNTMP=      INTFTENS=
SOLUBPNT= 55.90      SOLUBTMP= 293.1      A      =      B      =
BVP      =      CVP      =      VPUPREND=      VPLWREND=
BVCP      =      CVCP      =      DVCN      =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTCOMB3TN=      HTDECOMP=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=
TOXINHAL=      INHALCNC=      INHALTIME=      LOTOXLIM=
LATETOX =      ABFLNTEMP=      MOLRATIO=      0.5000E-04
MOLFRAC =
CRITPRES=
BRHO      =
LQVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPEND=
INTFTIMP=
AVP      =
AVCP      =
VHCLOSND=
HTSQLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPC  CHEMNAME = COPPER CHLORIDE          PATHCODE = SS
MOLECW = 170.5      NBP =
DENSITY = 2540.     DENSTEMP = 293.1     SHPSRATE = S
CRHO =
AVIS =
LTHCNTWP =
LQHTCPPT =
LHCLOBAO =
SOLUBPNT = 77.00    SOLUBTMP = 293.1     A = -16.81
BVP =
BVCP =
HTFUSION =
HTREACTN =
TOXINHAL =
LATETOX =
MOLFRAC =

LDUPREND =
BVIS =
ACON =
LQHTCPTM =
SURFTENS =
SOLUBTMP = 293.1    A = -16.81
CVP =
CVCP =
LHTVAPOR =
HTPOLYMR =
INHALCNC =
ABFLMTMP =

CRITPRES =
BRHO =
LOVISTMP =
LOTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP =
AVCP =
VHCLOENO =
HTSOLUTN =
BURNRATE =
UPTOXLIN = 0.5000E-03
PLMETEMP =

CRITTEMP =
ARHO =
LOVISPNT =
LVLWRBND =
LTCUPBND =
BHC =
INTFTENS =
E = 0.3200
VPLWRBND =
VHCUPBND =
HTDECOMP =
UPFLMLIM =
LOTOXLIM = 0.5000E-04
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPF  CHEMNAME = COPPER FLUOROBORATE          PATHCODE = A  P
MOLEWT = 237.2      NBP = 373.0      (E) NFP =
DENSITY = 1540.     DENSTEMP= 293.1  SHPSRATE=L
CRHO =              LDUPRBND=        LQWREND=
AVIS =              BVIS =           LVUPREND=
LTHCNTMP=           ACON =           BCON =
LQHTCPPT=           LQHTCPTM=        AHC =
LHCLOBND=           SURFTENS=        SFTNTEMP=
SOLUBPNT=           SOLUBTMP=        A =
BVP =               CVP =            VPUPRBND=
BVCP =              CVCP =           DVCP =
HTFUSIGN=           LHTVAPOR=        HTCONSTN=
HTREACTN=           HTPOLYMR=        LOFLMLIM=
TOXINHAL=           INHALCNC=        INHALTME=
LATETOX =           ABFLMTMP=        MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISIMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04  0.5000E-03
FLMETEMP=
AIRFUEL =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/D3/76 TIME D5/49/OD PAGE234

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPH	CHEMNAME = CAMPHENE	PATHCODE = II	
MOLEWT =	136.D	NBP =	427.D
DENSITY =	B7D.0	DENSTEMP =	288.1
CRHO =		LDLWRBND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LOHTCPPT =		LOHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SDLUBTMP =	
BVP =	2412.	CVP =	-0.150D
BVCP =		CVCP =	
HTFUSIDN =		LHTVAPOR =	
HTREACTN =		HTPDLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	323.D
		SHPSTATE = S	
		LDLWRBND =	
		LVUPRBNBND =	
		BCON =	
		AHC =	
		SFTNTEMP =	
		A =	
		VPUPRBNBND =	427.1
		DVCP =	
		HTCORSTN =	-0.452DE+D8
		LDFLMLIM =	
		INHALTIME =	
		MOLRATID =	
CRITPRES =		CRITTEMP =	
BRHO =		ARHO =	
LQVISTMP =		LQVISPNT =	
LQTHRCND =		LVLWRBND =	
LTCLOBND =		LTCUPBND =	
LHCUPEND =		BHC =	
INTFTTMP =		INTFTENS =	
AVP =	10.65	B =	
AVCP =		VPLWRBND =	353.1
VHCLDBND =		VHCUPBND =	
HTSDLUTN =		HTDECONP =	
BURNRATE =		UPFLMLIN =	
UPTOXLIM =		LOTOXLIM =	
FLMETEMP =		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPL  CHEMNAME = CHLOROPICRIN. LIQUID          PATHCODE = A  X
MOLECWT = 164.4      NBP = 365.0      NFP = 209.0      CRITPRES=
DENSITY = 1640.      DENSTEMP= 298.1      SHPSTATE=L      ARHO = 2136.      BRHO = -2.000
CRHO = 0.0000E+00    LDUPREND= 303.1      LOLWPSND= 273.1      LOVISPAT= 0.1098E-02      LQVISTMP= 293.1
AVIS = -10.91        BVIS = 1200.      LVUPREND= 353.1      LVLWPSND= 283.1      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPEND= 298.1      LTCLOBND= 283.1
LOHTCPPT= 1675.      (E) LOHTCPTM= 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPEND= 298.1
LHCLOBND= 283.1      SURFTENS= 0.3230E-01      SFTNTEMP= 293.1      INTFTENS= 0.3000E-01(E) INTFTMP= 293.1
SOLUBPNT= 0.2272      SOLUBTMP= 273.1      A = 0.9372      B = -0.2410E-02      AVP = 10.17
BVP = 1990.          CVP = -0.1500      VPUPREND= 393.1      VPLWPSND= 253.1      AVCP = 0.1866E+05(E)
BVCP = 323.7 (E) CVCP = -0.2706 (E) OVCP = 0.7620E-03(E) VHCUPEND= 500.0      VHCLOBND= 250.0
HTFUSION=            LHTVAPOR= 0.2400E+06      HTCOMSTN=      HTSOLUTN=
HTREACTN=            HTPOLYMR=                LOFLMLIM=      UPFLMLIM=
TOXINHAL= 0.1000      INHALCNC=                INHALTME=      LOTCXLIN=
LATETOX =            ABFLMTMP=                MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPN	CHEMNAME = P-CHLOROPHENOL	PATHCODE = 11 SS	
MOLEWT = 128.6	NBP = 493.0	NFP = 316.0	CRITTEMP =
DENSITY = 1310.	DENSTEP = 293.1	SHPSTATE = S	BRHO =
CRHO =	LOUPRBND =	LOLWPSND =	LOVISTMP =
AVIS =	BVIS =	LVLPRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCCN =	LFCLOBND =
LOHTCPPT =	LOHTCPTN =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTTMP =
SOLUBPNT = 3.200	SOLUBTMP = 298.1	A =	AVP = 10.22
BVP = 2570.	CVP = -0.1500	VPUPRBND = 493.1	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSICN =	LHTVAFOR = 0.3700E+06(E)	HTCOWBTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-02
LAFETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

SEARCHCODE = A T U

MOLECWT =	NBP =	473.0	(E) NFP	=		CRITTEMP=	CRITPRES=
DENSITY =	B60.0 (E) DNSTEMP=	293.2	SHPSTATE=L		ARHO =	1000.	(E) BRHO = 0.0000E+00(E)
CRHO =	0.0000E+00(E) LDUPRND=	300.0	(E) LOLWRSD=	273.0	(E) LQVISP.T=	0.1000E-01(E)	LQVISTMP= 293.0 (E)
AVIS =	-9.340 (E) BVIS =	1390.	(E) LVUPRSD=	300.0	(E) LVLWRSD=	273.0	(E) LOTHRDND= 0.1300 (E)
LTHCNTNP=	293.0 (E) ACON =	0.1300	(E) BCON =	0.0000E+00(E)	LTCUPBND=	300.0	(E) LTCLOEND= 273.0 (E)
LQHTCPPT=	2000. (E) LQHTCPTM=	293.0	(E) AHC =	2000.	(E) EHC =	0.0000E+00(E)	LHCUPBND= 300.0 (E)
LHCLCBND=	273.0 (E) SURFTENS=	0.2000E-01(E)	SFTNTEMP=	293.0	(E) INTFTENS=	0.6000E-01(E)	INTFTTMP= 293.0 (E)
SOLUBPNT=	SOLUTMP=	A =	B =	AVP =			
BVP =	CVP =	VPUPRSD=	VPLWRSD=	AVCP =			
BVCP =	CVCP =	DVCP =	VHCUPSD=	VHCLOBND=			
HTEFUSION=	LHTVAPOR=	HTCOYSTN=	-0.4600E+08(E)	HTEDECOMP=			HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=		UPFLWLIM=			BURNRATE=
TOXINHAL=	INHALLCNC=	3.000	INHALTME=	1800.			UPTOXLIM=
LATETOX =	ABFLMTMP=		MOLRATIO=				FLMETENP=
MOLFRACT =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CPP      CHEMNAME = CALCIUM PHOSPHIDE      PATHCODE = RR

MOLEWT = 182.2      NBP =      NFP = 1870.      (E) CRITTEMP=
DENSITY = 2510.      OENSTEMP= 293.1      SHPSRATE=S      ARHO =
CRHO =      LDUPREND=      LOIWRSPNT=
AVIS =      BVIS =      LVUPREND=      LQTHCPTM=
LTHCNTMP=      ACON =      SURFTENS=      INTFTMP=
LHCLOBNO=      SOLUBPNT=      A      B      AVP =
EVP =      CVP =      VPUPRNO=      VPLWREND=
BVCP =      CVCP =      DVCP =      VHCUPBND=
HTFUSIGN=      LHTVAPOR=      HTCO:STN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIN=      UPFLMLIN=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```


CPR	CHEMNAME = CYCLOPROPANE	A	B	C	D	E	F	G
MOLEWT	= 42.10	NBP	= 240.3	NFP	= 145.8	CRITTEND=	397.9	CRITPRES=
DENSITY	= 676.0	OENSTEMP=	240.1	SHPSTATE=L		ARHO	= 976.4	BRHO
CRHO	= 0.0000E+00	LUPRBNDR=	273.1	LDLWRBND=	193.1	LOVISPLT=	0.1600E-03	LQVISTMP=
AVIS	= -9.852	8VTS	= 267.0	LVUPRBNDR=	273.1	LVLWRBND=	193.1	LQTHRCNDR=
LTHCNTMP=	240.1	ACON	= 0.2656	BCON	= -0.5466E-03	LTCUPBNDR=	273.1	LTCLOSENR=
LQHTCPPT=	1951.	LOHTCPTM=	240.1	AHC	= 1138.	BHC	= 3.391	LHCUPBNDR=
LHCLOBNDR=	193.1	SURFTENS=	0.2200E-01	SFTNTTMP=	233.1	INTFTERS=		INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A	=	B	=	AVP
8VP	= 1186.	CVP	= -0.1500	VPUPEBND=	263.1	VPLWREBND=	183.1	AVCP
8VCP	= 182.1	CVCP	= 0.0000E+00	DVCP	= 0.0000E+00	VHCUPBNDR=	573.0	VHCLOSENR=
HTFUSION=		LHTVAPOR=	0.4730E+06	HTCOYSTIN=	-0.4939E+08	HTEDECOVP=		HTSOLUTNR=
HTREACTNR=		HTPOLYMR=		LOFLMLIM=	2.400	UPFLWLIN=	10.30	BURNRATE=
TOXINHAL=	400.0	INHALLCNC=		INHALLTIME=		LOTGXLLIM=		UPTOXLLIM=
LAFETOX	=	ABFLMTMP=		MOLRATIO=	0.9167	(E) AIRFUEL	= 14.67	(E) FLMETEMP=
MOLFRAC	=							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CPS    CHEMNAME = CAUSTIC POTASH SOLUTION      PATHCODE = A  P
MOLECW =          NBP =          403.0 (E) NFP =
DENSITY = 1450. (E) DENSITY = 293.2 SHPSTATE =
CRHO =          LDUPRND =          BVIS =          BCON =          AHC =          1578.
AVIS =          ACON =          LOHTCPTM = 293.2 SFTNTMP =
LTHCNTMP =          LOHTCPTM = 293.2 SURFTENS =          A =          VPLWRBND =
LOHTCPTM = 2805. LOHTCPTM = 293.2 SOLUBTMP =          CVP =          DVCN =          HTCONSTN =
LHCLOBND = 273.2 SURFTENS =          CVCP =          LHTVAPOR =          LOFLMLIN =
SOLUBPNT =          SOLUBTMP =          CVP =          CVCP =          HTPOLYMR =          INHALCNC =
BVP =          CVCP =          LHTVAPOR =          HTPOLYMR =          INHALCNC =          ABFLMTMP =
BVCP =          HTFUSION =          HTREACTN =          TOXINHAL =          LATETOX =          MOLFRAC =
HTFUSION =          HTREACTN =          TOXINHAL =          LATETOX =          MOLFRAC =
LHTVAPOR =          HTPOLYMR =          INHALCNC =          ABFLMTMP =          MOLFRAC =
LOFLMLIN =          INHALCNC =          ABFLMTMP =          MOLFRAC =
HTCONSTN =          LOFLMLIN =          INHALCNC =          ABFLMTMP =          MOLFRAC =
DVCN =          LHTVAPOR =          HTPOLYMR =          INHALCNC =          ABFLMTMP =          MOLFRAC =
CVCP =          LHTVAPOR =          HTPOLYMR =          INHALCNC =          ABFLMTMP =          MOLFRAC =
CVP =          LHTVAPOR =          HTPOLYMR =          INHALCNC =          ABFLMTMP =          MOLFRAC =
LOHTCPTM = 2805. LOHTCPTM = 293.2 SURFTENS =          A =          VPLWRBND =
LHCLOBND = 273.2 SURFTENS =          CVCP =          LHTVAPOR =          HTPOLYMR =          INHALCNC =
LOHTCPTM = 2805. LOHTCPTM = 293.2 SURFTENS =          A =          VPLWRBND =
LTHCNTMP =          ACON =          LOHTCPTM = 293.2 SURFTENS =          A =          VPLWRBND =
AVIS =          BVIS =          BCON =          AHC =          1578.
CRHO =          LDUPRND =          BVIS =          BCON =          AHC =          1578.
DENSITY = 1450. (E) DENSITY = 293.2 SHPSTATE =
MOLECW =          NBP =          403.0 (E) NFP =
*****
CRITPRES =
BRHO =
LQVISTMP =
LQTHRCND =
LTCLOBND =
LHCUPBND = 313.2
INTFTTMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN = -0.400DE+05(E)
BURNRATE =
UPTOXLIM =
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPT CHEMNAME = CAPTAN

PATHCODE = 11

MOLECW = 500.6	NBP =	NFP = 443.0	CRITPRES =
DENSITY = 1740.	DENSTEMP = 293.1	SHPSSTATE = S	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTIMP =
SOLUBPNT = 0.3000E-03	SOLUBTMP = 298.1	A = 0.3000E-03	AVP =
BVP =	CVP =	VPUPRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN = -0.1650E+08(E)	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTIME =	UPTOXLIM = 0.1500E-01
LATEOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CRA      CHEMNAME = CHLOROACETOPHENO:LE      PATHCODE = II  RR
MCLEWT = 154.6      NBP = 520.0      NFP = 312.0      (E) CRITTEMP=
DENSITY = 1320.      OENSTEMP= 268.1      SHPSTATE=S      ARHO =
CRHO =              LOUPRBD=              LOVRBD=              LOVISPT=
AVIS =              BVIS =              LVUPRBD=              LVLWRBD=
LTHCNTMP=          ACON =              BCON =              LTCUPBND=
LQHTCPPT=          LOHTCPTM=              AHC =              SHC =
LHCLOBNO=          SURFTENS=              SFTNTMP=              INTFTENS=
SOLUBPNT=          SOLUBTMP=              A =              B =
BVP =              CVP =              VPUPRBD=              VPLWRBD=
BVCP =              CVCP =              OVCP =              VHCUPEND=
HTFUSION=          LHTVAPOR=              HTCONSTN= -0.2170E+08(E) HTOECOMP=
HTREACTN=          HTPOLYMR=              LOFLMLIN=              UPFLMLIN=
TCXINHAL= 0.5000E-01      INHALCNC=              INHALTME=              LOTOXLIM=
LAFETOX =          ABFLMTMP=              MOLRATIO=              AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCNO=
LTCLOSNO=
LHCUPEND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

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PATHCOOE = A T

[illegible]

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/49/15 PAGE244

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

CRE	CHEMNAME = CALCIUM PESINATE	PATHCODE = 11	
MOLECWT =	643.0 (E) NBP =	589.0 (E) NFP =	CRITPRES =
DENSITY =	1130.0	OENSTEMP =	298.1 SHPSTATE=S
CRHO =		LOUPREND =	LDLWRBND =
AVIS =		BVIS =	LVUPRBN =
LTHCNTMP =		ACON =	BCON =
LQHTCPPT =		LQHTCPTM =	AHC =
LHCLOBNO =		SURFTENS =	SFTNTEMP =
SOLUBPNT =		SOLUSTMP =	A =
BVP =		CVP =	VPUPRBN =
BVCP =		CVCP =	OVCP =
HTFUSION =		LHTVAPOR =	HTCOASTN =
HTREACTN =		HTPOLYMR =	LOFLMLIM =
TOXINHAL =		INHALCNC =	INHALTME =
LAFETOX =		ABFLMTMP =	MOLRATIO =
MOLFRAC =			
			CRITTEMP =
			ARHO =
			LOVISPT =
			LVLWRBND =
			LTCUPBND =
			BHC =
			INTFTENS =
			B =
			VPLWRBND =
			VHCUPBND =
			HTSOLUTN =
			BURNRATE =
			UPTOXLIN =
			FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
CRF  CHEMNAME = CHLOROFORM                PATHCODE = A  X
MOLEWT = 119.4      NBP = 334.4      NFP = 209.7      CRITPRES= 0.5500E+07
DENSITY = 1490      OENSTMP= 293.2      SHPSRATE=L      BRHO = -1.610
CRHO = -0.5300E-03      LOUPRNO= 333.2      LOLPRND= 223.2      LOVISIMP= 293.2
AVIS = -10.26      BVIS = 813.0      LVUPRNO= 373.2      LQTHRCND= 0.1163
LTHCNTMP= 293.2      ACON = 0.1857      BCON = -0.2326E-03      LTCLOSNO= 213.2
LQHTCPPT= 950.4      LOHTCPTM= 293.2      AHC = 582.2      LHCUPBND= 373.2
LHCL08NO= 253.2      SURFTENS= 0.2710E-01      SFTNTMP= 293.2      INTFTTMP= 293.2
SOLUBPNT= 0.8000      SOLUBTMP= 298.2      A = 10.08      AVP = 10.08
BVP = 1687.      CVP = 0.4004E-01      VPUPRND= 323.2      AVCP = 0.2592E+05
BVCP = 168.7      CVCP = -0.1172      OVCP = 0.0000E+00      VHCLOSND= 250.0
HTFUSION=      LHTVAPOR= 0.2483E+06      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLNLIM=      UPFLNLIM=      BURNRATE=
TOXINHAL= 25.00      INHALCNC= 400.0      INHALTME= 1800.      UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CRS  CHEMNAME = CRESOLS  PATHCODE = A  P  Q  T  U  X  Y
MOLEWT = 108.1  NBP = 450.0  (E) NFP =  CRITTEMP=  CRITPRES=
DENSITY = 1030.  (E) DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1241.  BRHO = -0.7000
CRHO = 0.0000E+00  LOUPREND= 313.2  LDLPREND= 273.2  LOVISINT= 0.8200E-02(E) LOVISTMP= 293.0  (E)
AVIS = -15.67  (E) BVIS = 3185.  (E) LVUPREND= 373.0  (E) LVLWRBND= 273.0  (E) LOTMRCND= 0.1512
LTHCNTMP= 293.2  ACON = 0.1512  BCCN = 0.0000E+00  LTCUPBND= 313.2  LTCLOBNO= 283.2
LOHTCPPT= 2600.  (E) LOHTCPTM= 300.0  (E) AHC = 2600.  (E) BHC = 0.0000E+00(E) LHCUPBND= 310.0  (E)
LHCLOBND= 280.0  (E) SURFTENS= 0.3700E-01  SFTINTMP= 293.2  INTFTENS= 0.4000E-01(E) INTFTTMP= 300.0  (E)
SOLUBPNT= 2.200  SOLUBTMP= 293.2  A =  B =  AVP = 10.18  (E)
BVP = 2430.  (E) CVP = 0.0000E+00(E) VPUPREND= 450.0  (E) VPLWRBND= 273.0  (E) AVCP = -0.2010E+05
BVCP = 570.5  CVCP = -0.2868  DVCP = 0.0000E+00  VHCUPBND= 500.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.4600E+06(E) HTCOMSTN= -0.3429E+08(E) HTDECCMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM= 1.100  BURNRATE=
TOXINHAL= 5.000  INHALCNC=  INHALTWE=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLNTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CSA  CHEMNAME = CHLOROSULFONIC ACID          PATHCODE = A  0
MOLEWT = 116.5      NBP = 428.0      NFP = 193.0      CRITPRES=
DENSITY = 1750.     DENSTEMP= 293.2  SHPSTATE=L      ARHO = 2225.  BRHO = -1.610
CRHO = 0.0000E+00   LDUPREND= 373.2  LDLRBND= 273.2  LOVISIMP=
AVIS =              BVIS =              LVUPREND=      LOTHRCND=
LTHCNTMP=          ACON =              BCON =          LTCLOBND=
LOHTCPPT= 1172.     LOHTCPTM= 293.2  AHC = 1172.     LHCUPBND= 353.2
LHCLOSND= 288.2     SURFTENS=          SFTNTEMP=      INTFTIMP=
SOLUBPNT=          SOLUBTMP=          A =              B =      AVP = 14.66
BVP = 3830.         CVP = 0.4004E-01  VPUPREND= 353.2  AVCP =
BVCP =             CVCP =              DVCVP =          VHCLOBND=
HTFUSIGN=          LHTVAPOR= 0.3250E+06(E) HTCONWSTN=    HTSDLUTN=
HTREACTN= -0.1415E+07  HTPOLYMR=          LOFLMLIM=      BURNRATE=
TOXINHAL= 5.000     INHALCNC= 5.000   INHALTME= 300.0  UPTDXLIM=
LAFETOX =          ABFLMTMP=          MOLRATIO=      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CSF CHEMNAME = COPPER SULFATE

PATHCODE = SS

MOLEWT = 249.7	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2290.	DENSTEMP = 288.2	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBN =	LDLWRBN =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBN =	LVLRBN =	LOTHRCND =
LTHCNTMP =	ACON =	RCON =	LTCUPBN =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPEND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTEMP =	INTFTTMP =
SOLUBPAT =	SOLUBTMP =	A = -73.31	8 = 0.3200	AVP =
BVP =	CVP =	VRUPRBN =	VPLWRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBN =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLWETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CSS CHEMNAME = CAUSTIC SODA SOLUTION

PATHCODE = A P

MOLEWT =	NBP =	403.0	(E)	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	DENSTEMP=	293.2		SHPSRATE=	ARHO =	BRHO =
CRHO =	LDUPREND=			LDLWRSND=	LOVISPNT=	LOVISTMP=
AVIS =	BVIS =			LVUPREND=	LVLWRB'D=	LOTHRCND=
LTHCNTMP=	ACON =			BCON =	LTCUPEND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	298.2		AHC =	LHCUPBND=	LHCUPBND=
LHCLOBNO=	SURFTENS=			SFTNTEMP=	INTFTMP=	INTFTMP=
SOLUBPNT=	SOLUBTMP=			A =	AVP =	AVP =
BVP =	QVP =			VPUPBND=	AVCP =	AVCP =
BVCP =	QVCP =			DVCP =	VHCLOBND=	VHCLOBND=
HTFUSIGN=	LHTVAPOR=			HTCORSTN=	HTSOLUTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=			LOFLW'LIM=	BURNRATE=	BURNRATE=
TOXINHAL=	INHALCNC=			INHALTME=	UPTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=			MOLRATIO=	FLMETEMP=	FLMETEMP=
MOLFRAC =						

-0.4000E+05(E)

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CSY CHEMNAME = CORN SYRUP

PATHCODE = A P

MOLECW =	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1400.	DENSTEMP = 310.2	SHPSRATE=L	ARHO = 1633.	BRHO = -1.0000
CRHO = 0.0000E+00	LDUPREND = 313.2	LDLWREND = 273.2	LOVISPAT =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LOTHRCNO =
LTHCNTMP =	ACON =	BCON =	LTCUPEND =	LTCLOBNO =
LQHTCPPT = 3000.	(E) LQHTCPTM = 293.0	(E) AHC = 3000.	(E) BHC =	LHCUPEND = 300.0 (E
LHCLOBNO = 293.0	(E) SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPREND =	VPLARBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBNTN =	HTDECCMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIN =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CTC      CHEMNAME = CATECHOL      PATHCODE = SS
MOLEWT = 110.1      NBP = 418.7      NFP = 377.5
DENSITY = 1344.      DENSTEMP = 293.1      SHPSTATE=S
CRHO =              LDUPRND=          LDLWRND=
AVIS =              BVIS =          LVUPRND=
LTHCNTMP=          ACON =          LTCUPBND=
LQHTCPPT=          LQHTCPTM=          BCCN =          EHC =
LHCLOBND=          SURFTENS=          SFTNTEMP=
SOLUBPNT= 45.0D      SOLUBTMP= 293.1      A =          B =          10.79
EVP = 3000.          CVP = -D.1500      VPUPRND= 523.1      VPLWRBND= 378.1
BVCN =              CVCP =          DVCN =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN= -0.2800E+08
HTREACTN=          HTPOLYMR=          LOFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=
LATETOX =          ABFLMTMP=          MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=
0.5000E-D3
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CTD CHEMNAME = 4-CHLORO-O-TOLUIDINE PATHCODE = 11
MOLEWT = 141.6 NBP = 514.0 NFP = 298.0 CRITPRES=
DENSITY = 1100. (G) DENSTEMP= 293.1 ARHO = BRHO =
CRHO = LDUPREND= LQVISTMP=
AVIS = BVIS = LVUPREND= LQTHRCND=
LTHCNTMP= ACON = BCON = LTCLOBND=
LQHTCPPT= LOHTCPTM= AHC = LMCUPEND=
LHCLOBND= SURFTE::S= SFTNTEMP= INTFTTMP=
SOLUBPNT= SOLUBTMP= A = B = AVP =
BVP = CVP = VPUPREND= VPLWRBND=
BVCP = CVCP = DVCP = VHCLOBND=
HTFUSION= LHTVAPOR= HTCON:BTN= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM=
TOXINHAL= INHALCNC= INHALTME= LOTOXLIM=
LATETOX = ABFLMTMP= MOLRATIO= BURNRATE=
MOLFRAC = FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CTF  CHEMNAME = CHLORINE TRIFLUORIDE      PATHCODE = A  C  O
MOLECWT = 92.50      NBP = 284.8      NFP = 197.1      CRITTEMP= 426.0      CRITPRES= 0.5770E+07
DENSITY = 1850.      OENSTEMP= 284.1      SHPSRATE=L      ARHO = 2406.      BRHO = -0.8715
CRHO = -0.3790E-02      LOUPREND= 333.1      LOLWREND= 273.1      LOVISPRAT= 0.4800E-03      LOVISTMP= 284.4
AVIS = -10.45      (E) BVIS = 800.0      (E) LVUPRSND= 284.4      LVLWRBND= 263.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 284.4      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND= 284.4      LTCLOBND= 273.1
LQHTCPPT= 1269.      LQHTCPTM= 272.2      AHC = 1047.      BHC = 0.7955      LHCUPBND= 284.1
LHCLOBND= 213.1      SURFTENS= 0.2650E-01      SFTNTEMP= 273.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.492
BVP = 1097.      CVP = -40.40      VPUPRSND= 303.1      VPLWRBND= 226.1      AVCP = 0.3768E+05(E)
BVCP = 0.0000E+00(E)      CVCP = 0.0000E+00(E)      OVCP = 0.0000E+00(E)      VHCUPBND= 200.0      VHCLOBNO= 250.0
HTFUSION=      LHTVAPOR= 0.2980E+06      HTCOM3TN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.1000      INHALCNC= 0.1000      INHALTME= 300.0      LOTOXLIM=      UPTOXLIM= 0.5000E-04(E)
LAFETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CUM    CHEMNAME = CUMENE
      MOLECW = 120.2      NBP = 425.6      PATHCODE = A T U
      DENSITY = 866.0      DENSTEMP = 288.2      SHPSTATE=L
      CRHO = 0.0000E+00      LOUPRBN = 373.2      LDWRSNO = 273.2      CRITTEMP = 631.1      CRITPRES = 0.3208E+07
      AVIS = -11.41      BVIS = 1250.      LVUPRBN = 303.2      LVLWRBN = 253.2      LQVISTMP = 293.2      BRHO = -0.8900
      LTHCNTMP = 293.2      ACON = 0.1938      BCON = -0.2326E-03      LTCUPBN = 373.2      LQTHRCND = 0.1256      LQVISTMP = 293.2
      LQHTCPPT = 1717.      LQHTCPTM = 293.2      AHC = 1103.      SHC = 2.093      LTCLOBND = 263.2      LQTHRCND = 0.1256
      LHCLOBNO = 263.2      SURFTENS = 0.2820E-01      SFTNTMP = 293.2      INTFTENS = 0.5000E-01(E)      INTFTMP = 293.0      LTCLOBND = 263.2
      SOLUBTMP =          A =          VPUPRBN = 353.2      VPLWRBN = 263.2      AVCP = -0.3370E+05      LHCUPBNO = 353.2
      BVP = 1290.      CVP = 0.4004E-01      DVCP = 0.0000E+00      HTCO*STN = -0.4120E+08      HTSOLUTN =          AVP = 7.657
      BVCP = 724.3      CVCP = -0.3433      LHTVAPOR = 0.3123E+06      LOFL*LM = 0.9000      UPFL*LM = 6.500      BURNRATE = 0.8333E-04      LTCLOBND = 250.0
      HTFUSION =          HTPOLYMR =          INHALCNC =          ABFLMTMP =          FLMETEMP =
      HTREACTN =          TOXINHAL = 50.00      INHALTME =          MOLRATIO =          UPTOXLM = 0.5000E-04      UPTOXLM = 0.5000E-03
      LATETOX =          LATETOX =          LATETOX =          LATETOX =          LATETOX =          LATETOX =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CYA  CHENAME = CYANOACETIC ACID          PATHCODE = SS
MOLEWT = 85.06      NBP =          NFP = 339.0
DENSITY = 1100.      (E) DENSTEMP= 293.1    SHPSRATE=S
CRHO =              LDUPRND=              LDWPRND=
AVIS =              BVIS =              LVUPRND=
LTHCNTMP=          ACON =              BCON =
LQHTCPPT=          LOHTCPTM=          AHC =
LHCLOBND=          SURFTENS=          SFTNTMP=
SOLUBPNT=          SOLUBTMP=          A =
BVP =              CVP =              VPUPRND=
BVCP =              CVCP =              DVCP =
HTFUSIGN=          LHTVAPOR=          HTCOYSTN= -0.146DE+08
HTREACTN=          HTPOLYMR=          LOFLWLIM=
TOXINHAL=          INHALCNC=          INHALTME=
LATETOX =          ABFLMTMP=          MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPEND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CYG  CHEMNAME = CYANOGEN
      PATHCODE = A  B  C  K  L  M  N
      MOLECW = 52.00  NBP = 252.1  NFP = 245.3  CRITTEMP = 399.8  CRITPRES = 0.591CE+07
      DENSITY = 954.0  OENSTEMP = 252.1  SRPSTATE=L  AFHO = 1206.  (E) BRHO = -1.000  (E)
      CRHO = 0.0000E+00(E) LDUPRND = 252.1  LDWRBND = 243.1  LOVISPT = 0.4000E-03(E) LOVISTMP = 252.1
      AVIS = -11.79  (E) BVIS = 1000.  (E) LVUPRND = 252.1  LVLWRBND = 243.1  LOTHRCND = 0.1396  (E)
      LTHCNTMP = 252.1  ACON = 0.1396  (E) BCOR = 0.0000E+00(E) LTCUPBND = 252.1  LTCLOEND = 243.1
      LQHTCPPT = 1256.  (E) LQHTCPTM = 252.1  AHC = 1256.  (E) BHC = 0.0000E+00(E) LHCUPBND = 252.1
      LHCLOBND = 243.1  SURFTENS = 0.2200E-01  SFTNTMP = 252.1  INTFTELS = 252.1  INTFTTMP =
      SOLUBPNT = 252.1  SOLUSTMP = 252.1  A = 252.1  B = 252.1  AVP = 9.972
      BVP = 1251.  CVP = -0.1500  VPUPRND = 303.1  VPLWRBND = 248.1  AVCP = 0.5862E+05(E)
      BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND = 50.0  VHCLOBND = 250.0
      HTFUSION = 0.4650E+06  HTCOMSTN = -0.2106E+08  HTDECOMP = 252.1  HTSOLUTN = 0.5850E+07
      HTREACTN = 252.1  LQHTCPTM = 252.1  LQHTCPTM = 252.1  LQHTCPTM = 252.1  LQHTCPTM = 252.1
      TOXINHAL = 10.00  INHALCNC = 2.160  INHALTME = 1800.  LOTOXLIM = 43.00  BURNRATE =
      LAETOX = 10.00  ABFLNTMP = 252.1  MOLRATIO = 1.000  (E) AIRFUEL = 5.280  (E) FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CYP    CHEMNAME = CYCLOPENTANE
      MOLEWT = 70.10      NBP = 322.5      PATHCODE = A T U V W
      DENSITY = 740.0      DENSTEMP= 293.1      SHPSTATE=L      CRITTEMP= 511.8      CRITPRES= 0.4510E+07
      CRHO = 0.0000E+00      LDUPREND= 313.1      LDLPREND= 273.1      LOVISPT= 0.4300E-03      LOVISTMP= 293.1      BRHO = -1.000
      AVIS = -11.22      BVIS = 1020.      LVUPREND= 353.1      LVLWRBND= 273.1      LQTHRCNO= 0.1186
      LTHCNTMP= 293.1      ACON = 0.2177      BCN = -0.3373E-03      LTCUPBND= 353.1      LTCLOBNO= 273.1
      LQHTCPPT= 1788.      LOHTCPTM= 293.1      AHC = 560.4      BHC = 4.187      LHCUPBND= 353.1
      LHCLOBND= 273.1      SURFTENS= 0.2300E-01      SFTNTEMP= 293.1      INTFTENS= 0.2800E-01(E)      INTFTTMP= 293.1
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.492
      BVP = 1447.      CVP = -0.1500      VPUPREND= 332.1      VPLWRBND= 253.1      AVCP = -0.2152E+05
      BVCP = 334.9      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 570.0      VHCLOBND= 250.0
      HTFUSIGN=      LHTVAPOR= 0.3900E+06      HTCOMSTN= -0.4650E+08      HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.100      (E) UPFLMLIM= 8.700      (E) BURNRATE= 0.1319E-03
      TOXINHAL=      INHALCNC=      INHALTME=      LOTCXLM= 0.5000E-03      UPTOXLM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

OAA  CHEMNAME = DIACETONE ALCOHOL
      MOLEWT = 116.2      NEP = 442.4      NFP = 230.4      CRITPRES= 0.2620E+07
      DENSITY = 938.0      DENSTEMP= 293.2      SHPSIATE=L      ARHC = 1231.      BRHO = -1.0000
      CRHO = 0.0000E+00      LOUPREND= 273.2      LOLWREND= 273.2      LOVISPT= 0.3200E-02      LOVISIMP= 293.2
      AVIS = -11.62      BVIS = 1721.      LVUPREND= 303.2      LVLWREND= 283.2      LOTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LOHTCPT= 2400.      (E) LOHTCPTM= 293.0      (E) AHC = 2400.      (E) BHC =      (E) BHC = 0.0000E+00(E) LHCUPEND= 293.0      (E
      LHCLOBNO= 273.0      (E) SURFTENS=      SFTNIEMP=      INTFTENS=      INTFTIMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.198
      BVP = 1531.      CVP = -77.16      VPUPREND= 473.2      VPLWREND= 283.2      AVCP = 0.1633E+05
      BVCP = 628.0      CVCP = -0.3852      OVCP = 0.9211E-04      VHCUPBND= 500.0      VHCLOBNO= 250.0
      HTFUSION=      LHTVAPOR= 0.3559E+06      HTCOYSTN= -0.3030E+08(E) HTDECOMP=      HTSOLUTN=
      HTPOLYMR=      LOFLMLIM= 1.800      UPFLMLIN= 6.900      BURNRATE=
      TOXINHAL= 50.00      INHALCNC= 150.0      INHALTIME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LALETEOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/49/44 PAGE26D

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OAC CHEMNAME = DIMETHYLACETAMIDE PATHCODE = A P O

MOLEWT = 87.10	NBP = 439.0	NFP = 253.0	CRITTEMP =	CRITPRES =
DENSITY = 943.0	OENSTEMP = 293.1	SHPSRATE=L	ARHO = 1206.	BRHO = -0.9000
CRHO = 0.0000E+00	LDUPRBND = 373.1	LDLWRBND = 273.1	LQVISPT = 0.9200E-03	LOVISTMP = 298.1
AVIS = -10.77	BVIS = 1127.	LVUPRBND = 373.1	LVLARBND = 273.1	LQTHRCND = 0.1861
LTHCNTMP = 293.1	ACON = 0.4227	BCON = -0.8025E-03	LTCUPBND = 333.1	LTCLOBND = 273.1
LQHTCPPT = 2010.	LOHTCPTM = 293.1	AHC = 1365.	BHC = 2.177	LHCUPBND = 373.1
LHCLOBND = 273.1	SURFTENS = 0.3400E-01	SFTNTEMP = 293.1	INTFTENS =	INTFTTMP =
SOLUBTMP =	SOLUBTMP =	A =	B =	AVP = 10.49
BVP = 2410.	CVP = -0.1500	VPUPRBND = 443.1	VPLWRBND = 323.1	AVCP = 0.2162E+05
BVCP = 293.5	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBND = -00.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.4980E+06	HTCONSTN = -0.2920E+08	HTOECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.500	UPFLMLIM = 11.50	BURNRATE = 0.4676E-04
TOXINHAL = 10.00	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

[illegible]

DAL	CHEMNAME = DECALOEHYDRE	PATHCODE = A T U					
	MOLECWT = 145.3	NBP =	489.0 (E)	NFP = 291.0	CRITTEMP=	CRITPRES=	
	DENSITY = B30.0	OENSTEMP=	288.2	SHPSTATE=L	ARHO = 1118.	BRHO = -1.0000	
	CRHO = 0.0000E+00	LOUPRBNQ=	313.2	LDLWRSNO=	273.2	LOVISTMP=	
	AVIS =	BVIS =		LVUPPSNO=		LOTHRCNO= 0.1500 (E)	
	LTHCNTMP= 310.0 (E)	ACON =	0.1500 (E)	BCON = 0.0000E+00(E)	LTCURSRQ=	320.0 (E) LTCLOSND= 300.0 (E)	
	LOHTCPPT= 1900. (E)	LOHTCPTM=	300.0 (E)	AHC = 1900. (E)	BHC =	0.0000E+00(E) LHCUPEHQ= 310.0 (E)	
	LHCLOSEND= 295.0 (E)	SURTENS=	0.2000E-01(E)	SFTNTIEMP=	310.0 (E) INTTENS=	0.5000E-01(E) INTFTTMP= 310.0 (E)	
	SOLUBPNT=	SOLUBTMP=		A =	B =	AVP = 9.884 (E)	
	BVP = 2337. (E)	CVP =	0.0000E+00(E)	VPUPPSND=	400.0 (E) VPLWRSD=	295.0 (E) AVCP = 0.2805E+05	
	BVCP = 795.5	CVCP =	-0.2847	OVCP =	0.0000E+00	VHCUPEHQ= 600.0	
	HTFUSION=	LHTVAPOR=		HTCOMSTN=	-0.4240E+08(E)	HTDECCNP= HTSOLUTN=	
	HTREACTN=	HTPOLYMR=		LOFLMLIM=		UPFLMLIN= BURNRATE=	
	TOXINHAL=	INHLCNC=		INHALTME=		LOTOXLIN= UPTOXLIN=	
	LARETOX =	ABFLMTMP=		MOLRATIO=		AIRFUEL = FLMETEMP=	
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DAM      CHEMNAME = DIPHENYLAMINE      PATHCODE = II
MOLECWT = 169.2      NBP = 575.D      CRITPRES=
DENSITY = 1160      DENSTEMP= 293.1      BRHO =
CRHO =      LDUPREND=      LOVISPLT=
AVIS =      BVIS =      LVLWREND=
LTHCNTMP=      ACON =      LTCUPBND=
LOHTCPPT=      LOHTCPTM=      BHC =
LHCLOBND=      SURFTENS=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      AVP =
BVP =      CVP =      VPUPRSND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCLDBND=
HTFUSION=      LHTVAPOR=      HTCON'GTN= -0.3790E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLW'LIM=      BURNRATE=
TOXINHAL= 1.325      INHALCNC=      INHALTME=      UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =
*****

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DAN  CHEMNAME = N-OECYL ALCOHOL          PATHCODE = A  T  U
MOLEWT = 158.3      NBP = 503.0      CRITTEMP= 700.0      CRITPRES= 0.2200E+07
DENSITY = 840.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1063.      BRHO = -0.7600
CRHO = 0.0000E+00      LOUPRNO= 373.2      LDLWRND= 283.2      LOVISIMP=
AVIS = 8VIS =      LVUPRNO=      LVLWRBNO=      LQTHRCND= 0.1500      (E)
LTHCNTMP= 283.0      (E) ACON = 0.1500      (E) SCON = 0.0000E+00(E) LTCUPBND= 310.0      (E) LTCLOBNO= 283.0      (E)
LQHTCPPT= 2300.      (E) LQHTCPTM= 293.0      (E) AHC = 2300.      (E) BHC = 0.0000E+00(E) LHCUPBND= 320.0      (E)
LHCLOBND= 283.0      (E) SURFTENS= 0.1500E 01(E) SFTNTEMP= 283.0      (E) INTFTENS= 0.6000E-01(E) INTFTIMP= 283.0      (E)
SOLUBPNT=      SOLUBTMP=      A = 8      AVP = 8.895
BVP = 1399.      CVP = -143.2      VPUPRNO= 523 2      VPLWRBNO= 293.2      AVCP = 0.2219E+05
BVCV = 887.6      CVCV = -0.4689      OVCP = 0.9630E-04      VHCUPBNO= 500.0      VHCLOBNO= 250.0
HTFUSION=      LHTVAPOR= 0.3100E+06(E) HTCOVSTN= -0.4170E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =      ABFLTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DAP  CHEMNAME = DI-N-AMYL PHTHALATE      PATHCODE = A  T  U
      MOLEWT = 306.0  NBP =                NFP =          CRITTEMP=
      DENSITY = 820.0  DENSITY= 293.1      SHPSSTATE=L      ARHO =          BRHO =
      CRHO =          LDUPRND=              LDWRBND=          LOVISPI= 0.3550E-01  LOVISTMP= 293.1
      AVIS = -15.47   BVIS = 3556.         LVUPRND= 363.1      LVLWRBND= 293.1  LOTHRCND=
      LTHCNTMP=       ACON =              BCON =          LTCUPBND=      LTCLOBND=
      LOHTCPPT=       LOHTCPTM=           AHC =            BHC =          LHCUPBND=
      LHCLOBND=       SURFTENS= 0.3150E-01  SFTNTEMP= 293.1    INTFTTENS=      INTFTTMP=
      SOLUBPNT= 0.1000E-01  SOLUBTMP= 293.1  A =              B =          AVP = 13.28
      BVP = 4765.      CVP = -0.1500      VPUPRND= 403.1      VPLWRBND=
      BVCP =          CVCP =              DVCV =          VHCUPBND=      VHCLOBND=
      HTFUSIGN=       LHTVAPOR=           HTCOMBTN= -0.3230E+08  HTSOLUTN=
      HTREACTN=       HTPOLYMR=           LOFLMLIM=          UPFLMLIM=
      TOXINHAL=       INHALCNC=           INHALTME=          LOTOXLM=
      LATETOX =       ABFLMTMP=           MOLRATIO=         AIRFUEL =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
D8A  CHEMNAME = OI-N-BUTYLAMINE          PATHCODE = A  T  U
MOLECWT = 129.2      NBP      = 432.8      CRITTEMP=
OENSITY = 767.0      OENSTEMP= 293.1      SHPSTATE=L      ARHO      = 1042.      (E) BRHO      = -1.000      (E)
CRHO      = 0.0000E+00(E) LDUPRND= 298.1      LDLWRSD= 273.1      LDVISPT= 0.9000E+03      LQVISTMP= 293.1
AVIS      = -11.58      8VIS      = 1339.      LVUPRSD= 323.1      LVLWRSD= 273.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACQN      = 0.1512      (E) BCQN      = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC      = 1884.      (E) BHC      = 0.0000E+00(E) LHCUP8NO= 298.1
LHCLOBND= 283.1      SURFTENS= 0.2476E-01      SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT= 0.4700      SOLUBTMP= 293.1      A      =      = 5      = 9.161
BVP      = 1499.      CVP      = -72.10      VPUPRSD= 443.1      VPLWRBND= 293.1      AVCB      =
BVCB      =      =      =      =      =      =      =      =      =      =      =      =      =      =      =
HTFUSION=      LHTVAPOR= 0.3030E+06      HTCOM'9TN= -0.4368E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM= 1.100      UPFLMLIM=      BURNRATE= 0.9753E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DBC  CHEMNAME = DIISOBUTYL CARBINOL      PATHCODE = A T U
MOLECWT = 144.3  NBP = 451.0  NFP = 208.0  CRITTEMP=
DENSITY = 812.0  DENSTEMP= 293.2  SHPSTATE=L  CRHO = 1105.  BRHO = -1.0000
CRHO = 0.0000E+00  LOUPRNO= 303.2  LOLWRNO= 283.2  LOVISPNT= 0.1430E-01  LQVISTMP= 293.2
AVIS =  BVIS =  LVUPRNO=  LVLWRPND=  LQTHRCND= 0.1700  (E)
LTHCNTMP= 293.0  (E) ACON = 0.1700  (E) BCON = 0.0000E+00(E) LTCUPBND= 298.0  (E) LTCLOBNO= 273.0  (E)
LOHTCPPT= 2500.  (E) LOHTCPTM= 293.0  (E) AHC = 2500.  (E) SHC = 0.0000E+00(E) LHCUPBND= 298.0  (E)
LHCLOBNO= 273.0  (E) SURFTENS= 0.4000E-01(E) SFTNTMP= 293.0  (E) INTFTENS= 0.2000E-01(E) INTFTTMP= 293.0  (E)
SOLUBPNT= 0.6000E-01  SOLUBTMP= 293.2  A = 9  AVP = 10.35  (E)
BVP = 2411.  (E) CVP = 0.0000E+00(E) VPUPRND= 450.0  (E) VPLWRPND= 300.0  (E) AVCP =
BVCP =  CVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR= 0.3182E+06  HTCOMBNTN= -0.4050E+08(E) HTOECCMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 0.8000  UPFLMLIM= 6.100  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DBK  CHENAME = DI-N-BUTYL KETONE          PATHCODE = A  T  U
MOLEWT = 142.0  NBP = 461.0  NFP = 267.0  CRITTEMP=
DENSITY = 822.0  DENTEMP= 293.1  SHPSTATE=L  ARHO = 845.9  CRITPRES=
CRHO = 0.000DE+00  LDUPRGND= 313.1  LDLPGRND= 273.1  LOVISPN=  LOVISTMP=
AVIS =  BVIS =  LVUPRGND=  LVLRBND=  LQTHRCND= 0.1512  (E)  LQTHRCND=
LTHCNTMP= 293.1  ACON = 0.1512  (E)  BCCN = 0.000DE+00(E)  LTCUPBND= 298.1  LTCLOBND=
LQHTCPPT=  LQHTCPTM=  AHC =  SHC =  LHCUPBND=
LHCLOBND=  SURFTENS= 0.266DE-01  SFTNIEMP= 294.2  INTFTTMS=  INTFTTMP=
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 9.171
BVP = 1920.  CVP = -0.1500  VPUPRGND= 463.1  VPLWRBND= 323.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR= 0.300DE+06(E)  HTCON:3TN= -0.395DE+08(E)  HTDECOMP=
HTPOLYMR=  LOPOLYMR=  LOFLMLIM=  HTSOLUTN=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM=  BURNRATE=
LAFETOX =  ABFLVTMP=  MOLRATIO=  UPTOXLIM=
MOLFRAC =  FLMETEMP=

```

EM OF UNITS

CHEMNAME = DIISOBUTYLENE

W
V
U

PATHCODE = A T

CRITPRES= 0.2619E+07

$$\text{BRHO} = -0.8500$$

LOVISTMP=

LOTHRCND= 0.1500 (E

LTCLOBND= 273.0 (E

LHCUPBND= 298.0 (E)

INTFTTMP= 293.0 (E

AVP = 10.15

$$AVCP = -0.1376E+05(E$$

VHCL06ND= 300.0 (E

HTSOLUTN=

BURNRATE= 0.1317E-03

UP TOX LIM=

FILMTEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DBO  CHEMNAME = O-01CHLOROBENZENE          PATHCODE = A   X   Y
      MOLECAT = 147.0      NBP = 453.7      NFP = 255.6      CRITTEVP=
      OENSITY = 1306.      OENSTEMP= 293.2      SHPS:ATE=L      ARHO = 1599.      BRHO = -1.0000
      CRHO = 0.0000E+00      LOUPRENO= 298.2      LOLWRBNO= 288.2      LQVISPRIT= 0.7500E-03(E) LQVISTMP= 293.0 (E
      AVIS = -11.70 (E) BVIS = 1320.      (E) LVUPRSNO= 293.0 (E) LVLWRBNO= 273.0 (E) LQTHRCNO=
      LTHCNTMP=          ACON =          BCON =          LTCUPBNO=          LTCLOBNO=
      LQHTCPTM= 1172.      LOHTCPTM= 293.2      AHC = 787.3      BHC = 1.256      LHCUPBNO= 373.2
      LHCLOSNO= 273.2      SURFTENS= 0.3700E-01      SFINTEMP= 293.2      INTFTELS= 0.4000E-01(E) INTFTTMP= 293.0 (E
      SOLUBPNT= 0.1500E-01      SOLUBTMP= 298.2      A =          =          B =          =          AVP = 9.870
      BVP = 2246.      CVP = 0.4004E-01      VPUPRSNO= 373.2      VPLWRBNO= 273.2      AVCP = -443R.
      BVCP = 477.3      CVCP = -0.2721      OVCP = 0.0000E+00      VHCUPBNO= 600.0      VHCLOBNO= 250.0
      HTFUSION=          LHTVAPOR= 0.2675E+06      HTCON:BTN= -0.1853E+08      HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM= 2.200      UPFLMLIM= 9.200      BURNRATE= 0.2167E-04
      TOXINHAL= 50.00      INHALCNC= 50.00      INHALTME= 900.0      LOTOXLIN= 0.5000E-03      UPTOXLIN= 0.5000E-02
      LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DBP      CHEMNAME = P-DICHLOROBENZENE          PATHCODE = 11
MOLEWT = 147.0      NBP = 447.4      NFP = 326.0      CRITPRES=
DENSITY = 1458.      DENSTEMP= 293.2      SHPS*ATE=S      CRITERP=
CRHO =      LOUPREND=      BVIS =      LVUPRENO=      BHC =      INTFTEMP=
AVIS =      ACON =      LOHTCPTM=      SURFTENS=      AVP =
LTHCTMP=      LOHTCPPT=      SOLUBTMP= 298.2      A =      VPLWRB:D=
LHCLOBND=      SURFTENS=      CVP =      CVCP =      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTPOLYWR=      HTSOLUTN=
HTREACTN=      INHALCNC=      ABFLMTMP=      BURNRATE= 0.2167E-04(E
TOXINHAL= 75.00      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DBR CHEMNAME = DECABORANE

PATHCODE = II RR

MOLECWT = 122.3	NBP = 486.0	NFP = 372.0	CRITPRES=
DENSITY = 940.0	DENSTEMP= 298.1	SHPSTATE=S	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LOHTCPPT=	LOHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP = 13.61
BVP = 3799.	CVP = -0.1500	VPUPRBND= 373.1	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOSND=
HTFUSION=	LHTVAPOR=	HTCOV3TN= -0.6671E+08	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL= 0.5000E-01	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-03
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DBS CHEMNAME = DODECYLBENZENESULFONIC ACID, TRIETHANOLA- PATHCODE = A P

MOLEWT =	475.6	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	1200.	(E) DENSTEMP=	293.1	SRPSSTATE=L	BRHO =
CRHO =		LDUPREND=		LDLWRBND=	LQVISTMP=
AVIS =		BVIS =		LVUPRSD=	LQTHRCND=
LTHCNTMP=		ACON =		BCCN =	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		AHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTMP=	INTFTTMP=
SOLUBNT=		SOLUBTMP=		A =	AVP =
BVP =		CVP =		VPUPRSD=	AVCP =
BVCP =		CVCP =		DVCP =	VHCLOBND=
HTFUSIGN=		LHTVAPOR=		HTCOM'STN=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLWLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=	UPTOXLIM=
LAFETOX =		ABFLNTMP=		MOLRATIO=	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DBT	CHEMNAME = D-BUTYLPHENOL	PATHCODE = A	T	U	I	
MOLEWT =	206.3	NBP =	526.D		CRITTEMP =	CRITPRES =
DENSITY =	914.D	DENSTEMP =	293.1		APHO =	BRHO =
CRHO =		LDUPREND =			LQVISTMP =	LQVISTMP =
AVIS =		BVIS =			LVLWRBND =	LQTHRCND =
LTHCNTMP =		ACON =			LTCUPBND =	LTCLOBND =
LQHTCPPT =		LQHTCPTM =			BHC =	LHCUPBND =
LHCLOBND =		SURFTENS =			INTFTERS =	INTFTTMP =
SOLUBPNT =		SOLUBTMP =			A =	AVP =
BVP =		CVP =			VPLWRBND =	AVCP =
BVCP =		CVCP =			VHCUPBND =	VHCLOBND =
HTFUSION =		LHTVAPOR =			HTDCORSTN = -0.410DE+08(E)	HTSOLUTN =
HTREACTN =		HTPOLYMR =			LDPLMLIM =	BURNRATE =
TOXINHAL =		INHALCNC =			INHALTME =	UPTOXLIM = 0.150DE-01
LATETOX =		ABFLMTMP =			MOLRATIO =	FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DBZ  CHEMNAME = N-OECYLBENZENE          PATHCODE = A   T   U
      MOLEWT = 218.D      NBP = 573.0      NFP =          CRITTEMP=          CRITPRES=
      DENSITY = 855.0     DENSTEMP= 293.1    SHPS:ATE=L      ARHO = 875.1      BRHO = -0.7000E-01
      CRHO = 0.0000E+00    LDUPRNO= 303.1     LDLPBND= 273.1    LOVISPNT= 0.3800E-02    LOVISTMP= 293.1
      AVIS = -12.25       BVIS = 1956.       LVUPBND= 313.1    LVLWRBND= 283.1      LQTHRCND= 0.1512 (E
      LTHCNTMP= 293.1     ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 278.1
      LOHTCPPT= 1424.     LOHTCPTM= 293.1     AHC = 1424.     EHC = 0.0000E+00    LHCUPBND= 298.1
      LHCLOBND= 278.1     SURFTENS= 0.2995E-01 SFTNTMP= 293.1    INTFTENS=          INTFTTMP=
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
      BVP =          CVP =          VPUPRND=          VPLWRBND=          AVCP =
      BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
      HTFUSIGN=          LHTVAFOR= 0.2413E+06    HTCONSTN= -0.4270E+08    HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE= 0.8417E-04
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

DCA CHEMNAME = 2,4-DICHLOROPHENOXYACETIC ACID PATHCODE = II
 MOLEWT = 221.0 NBP = SHPSATE=S NFP = 314.0 CRITTEMP= CRITPRES=
 DENSITY = 1100. (E) DENSTEMP= 293.1 ARHO = BRHO =
 CRHO = LDLWREND= LOVISPT= LOVISTMP=
 AVIS = BVIS = LVUPREND= LVLWREND= LOTHRCND=
 LTHCNTMP= ACON = BCON = LTCUPREND= LTCLOBND=
 LQHTCPPT= LOHTCPTM= AHC = EHC = LHCUPREND=
 LHCLOBND= SFTNTEMP= INTFTENS= INTFTTMP=
 SOLUBPNT= 0.7000E-01 SOLUBTMP= 298.1 A = B = AVP =
 BVP = VPUPREND= VPLWREND= AVCP =
 BVCP = DVCP = VHCUPREND= VHCLOBND=
 HTFUSION= HTCO3BTN= -0.1800E+08(E) HTDECOMP= HTSOLUTN=
 HTREACTN= LOFLWLIM= UPFLMLIM= BURNRATE=
 TOXINHAL= INHALTIME= LOTOXLIM= 0.5000E-04 UPTOXLIM= 0.5000E-03
 LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
 MOLFRAC = FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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OCB  CHEMNAME = OICHLOROBUTENE
      MOLEWT = 125.0      NBP = 429.0      NFP = 225.0      (E) CRITTEMP =
      DENSITY = 1190.      OENSTEMP = 293.1      SHPSSTATE=L      ΔPHO = 1483.      (E) BRHO = -1.000      (E)
      CRHO = 0.0000E+00(E) LOUPREND = 303.1      LOLEWENO = 278.1      LOVISPT = 0.1000E-02      LOVISTMP = 298.1
      AVIS = -11.34      (E) BVIS = 1320.      (E) LVUPRENO = 298.1      LVLEWENO = 283.1      LQTHRCND = 0.1512      (E)
      LTHCNTMP = 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND = 293.1      LTCLOBND = 283.1
      LOHTCPPT = 1675.      (E) LOHTCPPT = 293.1      AHC = 447.4      (E) SHC = 4.187      (E) LHCUPBND = 303.1
      LHCLBNO = 278.1      SURFTENS = 0.2400E-01(E) SFTNIEMP = 293.1      INTFTENS = 0.3000E-01(E) INTFTIMP = 293.1
      SOLUBPNT = 0.2000      SOLUBTMP = 298.1      A = 10.31      B = 10.31
      BVP = 2274.      CVP = -0.1500      VPUPRENO = 429.1      VPLWRENO = 353.1      AVCP = 0.1591E+05(E)
      BVCP = 356.0      (E) CVCP = -0.2097      (E) OVCP = 0.4709E-04(E) VHCUPBND = 500.0      VHCLOBND = 250.0
      HTFUSION = LHTVAPOR = 0.3100E+06(E) HTCOAGTN = -0.1800E+08(E) HTDECOMP = HTSOLUTN =
      HTREACTN = HTPOLYMR = LOFLWLIN = 1.500      UPFLWLIN = 4.000      BURNRATE = 0.4342E-04
      TOXINHAL = INHALCNC = INHALTME = LOTCXLIN = 0.5000E-04      UPTOXLIM = 0.5000E-03
      LATETOX = ABFLWTMP = MOLRATIC = AIRFUEL =
      MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DCE  CHEMNAME = 1-DECENE  PATHCODE = A T U
MOLEWT = 140.2  NBP = 443.8  NFP = 206.9  CRITTEMP=  CRITPRES=
DENSITY = 741.0  OENSTEMP= 293.2  SHPSTATE=L  ARHO = 969.1  BRHO = -0.7800
CRHO = 0.0000E+00  LDUPRND= 373.2  LDWRBND= 273.2  LQVSPAT= 0.8000E-03  LQVISTMP= 293.2
AVIS = -10.98  BVIS = 1121.  LVUPRND= 373.2  LVLWRBND= 273.2  LOTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E)  ACON = 0.1500 (E)  BCON = 0.0000E+00(E)  LTCUPRND= 310.0 (E)  LTCLOBND= 273.0 (E)
LOHTCPPT=  LOHTCPTM=  AHC =  BHC =  LHCUPSND=
LHCLOBND=  SURFTENS= 0.2300E-01(E)  SFTNTMP= 293.0 (E)  INTFTELS= 0.5000E-01(E)  INTFTTMP= 293.0 (E)
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 10.59
BVP = 2446.  CVP = 0.4004E-01  VPUPRND= 393.2  VPLWRBND= 293.2  AVCP = 0.4187E+05
BVCP = 607.1  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCUPBND= 400.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.2759E+06  HTCOMBTN= -0.4444E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIV=  BURNRATE= 0.1000E-03
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM=  UPTOXLIM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DCF  CHEMNAME = DICHLORODIFLUOROMETHANE
      MOLEWT = 120.9      NBP = 243.4      NFP = 115.5      PATHCODE = A C I J
      DENSITY = 1350.     DENSTEMP = 288.2      SHPSTATE=L      CRITTEMP = 385.0      CRITPRES = 0.4120E+07
      CRHO = 0.0000E+00    LDUPREND = 313.2      LDLWREND = 253.2      ARHO = 2351.     BRHO = -3.500
      AVIS =              BVIS =              LVUPREND =              LOVISIMP =
      LTHCNTMP =           ACON =              BCON =              LOTHRCND =
      LQHTCPPT = 1051.     LQHTCPTM = 293.2      AHC = 433.0      LTCLOEND =
      LHCLOBND = 233.2     SURFTENS =              SFTNTEMP =              LHCUPBND = 313.2
      SOLUBPNT =           SOLUSTMP =              A =              INTFTIMP =
      BVP =              CVP =              VPUR = SNG =              AVP =
      BVCP = 203.5         CVCP = -0.1549        DVCP = 0.0000E+00      AVCP = 0.2667E+05
      HTFUSION =           LHTVAPOR = 0.3262E+06      HTCCHEIN =              VHCLOEND = 250.0
      HTRACTN =           HTPOLYMR =              LOFLVLM =              HTSOLUTN =
      TOXINHAL = 1000.     INHALCNC =              INHALTME =              BURNRATE =
      LATETOX =           ABFLMTMP =              MOLRATIO =              UPTOXLM =
      MOLFRAC =           ABFLMTMP =              MOLRATIO =              FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DCM  CHEMNAME = DICHLOROMETHANE          PATHCODE = A  P  X
MOLEWT = 84.93      NBP = 313.0      CRITTEMP = 518.0      CRITPRES = 0.617CE+07
DENSITY = 1322.      OENSTEMP = 293.2      SHPSATE=L      BRHO = -1.800
CRHO = 0.0000E+00    LOUPREND = 323.2      LDLPREND = 213.2      LOVISTMP =
AVIS =              BVIS =              LVUPREND =          LQTHRCND =
LTHCNTMP =          ACON =              BCON =              LTCLOBND =
LQHTCPPT = 1172.     LOHTCPTM = 293.2      AHC = 804.1          LMCUPBND = 333.2
LHCLOBNO = 273.2     SURFTENS =          SFTNTEMP =          INTFTTMP =
SOLUBPNT = 1.380     SOLUBTMP = 293.2      A =                B = 9.940
BVP = 1540.          CVP = 0.4004E-01      VPUPREND = 303.2      AVCP = -0.1059E+05
BVCP = 284.7         CVCP = -0.2639        DVCP = 0.0000E+00      VHCLOBNO = 250.0
HTFUSION =           LHTVAPOR = 0.3295E+06      HTDECOMP =          HTSOLUTN =
HTREACTN =           HTPOLYMR =          LOFLMLIM = 12.00      UPFLMLIV = 19.00
TOXINHAL = 500.0     INHALCNC =          INHALTME =          LOTOXLIM = 0.5000E-03
LATETOX =           ABFLMTMP =          MOLRATIO =          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DCP	CHEMNAME = 2,4-DICHLOROPHENOL	PATHCODE = II	
MOLEWT =	163.0	NBP =	489.0
DENSITY =	1400.	DENSTEMP =	288.2
CRHO =		LDUPREND =	
AVIS =		BVIS =	
LTHCNTYP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	0.4600	SOLUBTMP =	293.2
RVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAETOX =		ABFLTMP =	
MOLFRAC =			
		CRITTEMP =	318.0
		ARHO =	
		LDVISPNT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTDECCMP =	
		UPFLMLIN =	
		LCTOXLIN =	0.5000E-03
		AIRFUEL =	
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPEND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-02
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DCS CHEMNAME = DODECYLBENZENESULFONIC ACID.CALCIUM SALT PATHCODE = A T U

MOLECW =	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1040.	DENSTEMP = 298.1	SHPSTATE = L	ARHO =	BRHO =
CRHO =	LOUPREND =	LDLWREND =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWREND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPREND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOSND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBRT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPREND =	VPLWREND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPREND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOWSTN =	HTDECOXP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIN =	UPFLMLIN =	BURNRATE = 0.6680E-04(E
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DDB CHEMNAME = DODECYLBENZENE

PATHCODE = A T U

MOLEWT = 240.0	NBP = 561.0	NFP =	CRITTEMP=	CRITPRES=	
DENSITY = 860.0	DENSTEMP= 293.1	SHPSTATE=L	ARHO = 1065.	BRHO = -0.7000	
CRHO = 0.0000E+00	LDUPRBND= 303.1	LDLWPBND= 273.1	LOVISPT= 0.5700E-02	LOVISTMP= 293.1	
AVIS = -13.12	BVIS = 2335.	LVUPRBND= 323.1	LVLWRBND= 273.1	LQTHRCND= 0.1512	(E)
LTHCNTMP= 293.1	ACON = 0.1512	(E) BCON = 0.0000E+00(E)	LICUPBND= 303.1	LTCLOBND= 283.1	
LQHTCPPT= 1884.	(E) LQHTCPTM= 293.1	AHC = 1884.	(E) BHC = 0.0000E+00(E)	LHCUPBND= 303.1	
LHCLOBND= 283.1	SURFTENS= 0.3010E-01	SFTNTMP= 293.1	INTFTEMP= 0.3000E-01(E)	INTFTTMP= 293.1	
SOLUBPPT=	SOLUBTMP=	A =	B =	AVP = 8.421	
BVP = 2320.	CVP = -0.1500	VRUPRBND= 313.1	VPLWRBND= 283.1	AVCP = 0.5631E+05	
BVCP = 1013.	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBND= 400.0	VHCLOBND= 250.0	
HTFUSION=	LHTVAPOR= 0.3400E+06	HTCOVSTN= -0.4180E+08	HTDECOMP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLMLIN=	UPFLMLIN=	BURNRATE= 0.6179E-04	
TOXINHAL=	INHALCNC=	INHALTME=	LOTCLXLM= 0.5000E-02	UPTOXLM= 0.1500E-01	
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PATHCODE = A T U

[illegible]

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

F/G 7/2

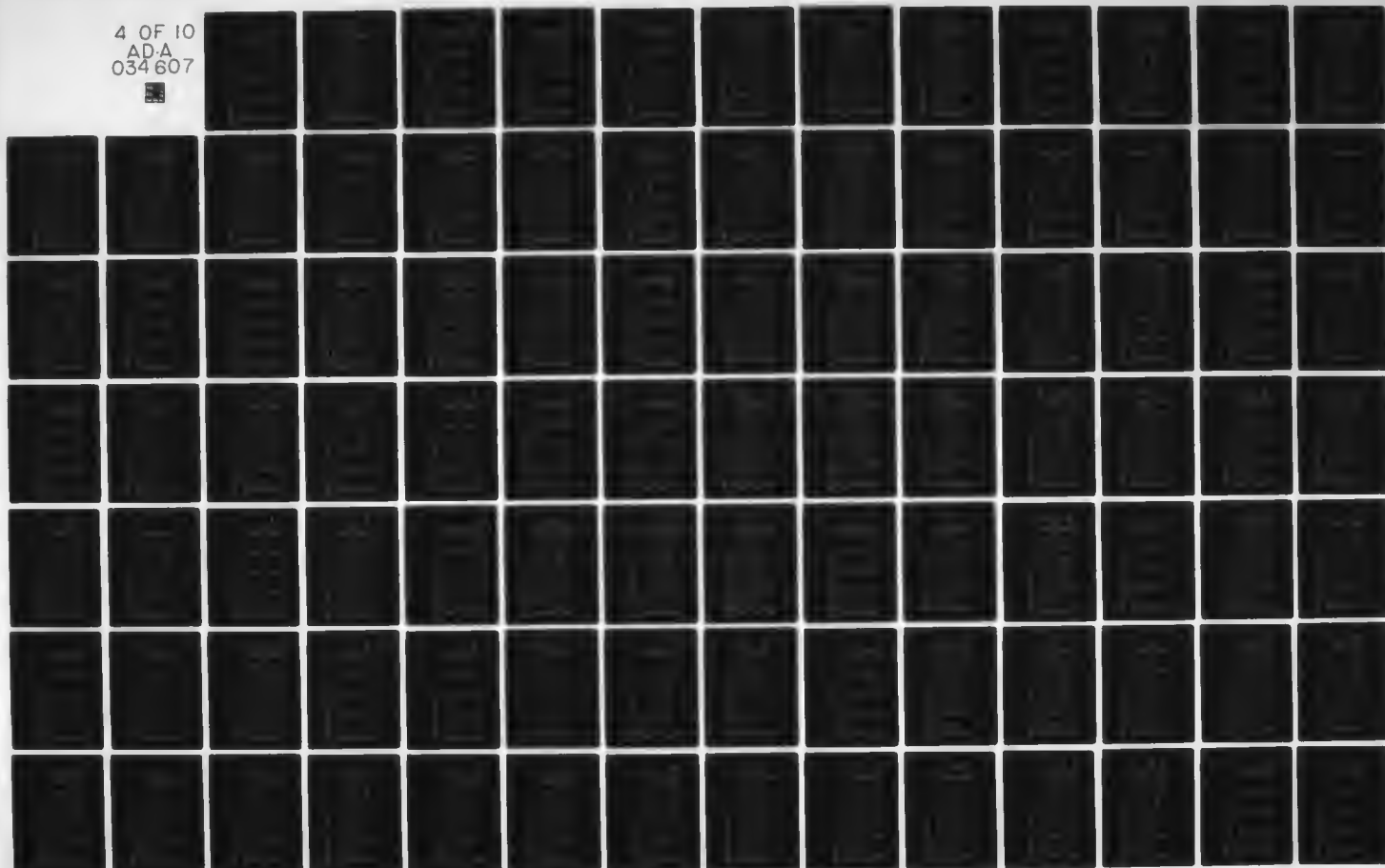
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

4 OF 10
AD-A
034 607



PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DDD	CHEMNAME = DDD	PATHCODE = 11	
MOLECWT =	320.0	NBP =	385.0
DENSITY =	1476.	DENSTEMP =	293.1
CRHO =		LDUPREND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LOHTCPPT =		LOHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAETOX =		ABFLMTMP =	
MOLFRAC =			
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOX LIM =	0.150CE-01
		FLMETEMP =	
		CRITTEVP =	
		ARHO =	
		LQVISPT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTDECOMP =	
		UPFLW LIM =	
		LOTOX LIM =	0.5000E-02
		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DDS CHEMNAME = DODECYL SULFATE, SODIUM SALT PATHCODE = SS

MOLEWT = 288.0	NBP =	NFP =	CRITPRES=
DENSITY = 1100. (E)	DENSTEMP= 293.1	SHPSATE=S	BRHO =
CRHO =	LDUPREND=	LDLWREND=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LOTHRCND=
LTHCNTMP=	ACON =	BCCN =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPEND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVF =
BVP =	CVP =	VPUPREND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCORSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	BURNRATE=
TOXINHAL=	INHLCNC=	INHALTME=	UPTOXLIM= 0.5000E-02
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PATHCODE = 11

NFP = 381.0

288-2

LDUPFEND=

BVIS
=

ACON: 11

ЛОИТСРТИ=

SURFTENS=

SOLUBTMP=

CVP =

CVC² =

LHTVAPOR=

HTPOLYMR=

INHALCNC=

ABFLM:TMP=

CHITTEP=

CH
=

!QVISP.T=

!VLRB?:C=

LTCUP51.D=

11
C
I
B

INTFTE^S=

11
12

VPLWRB.C=

VHCUPB1.C=

HIDECOMP=

UPFLMLIM=

0.5000E-04

AIRFUEL =

```
*****
PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS
*****
```

DDW	CHEMNAME = DIMETHYLHEXANE DIHYDROPEROXIDE, WET		PATHCODE = II
	MOLECWt = 178.2	NBP =	CRITTEMP=
	DENSITY = 1000.	(E) DNSTEMP= 293.1	BRHO =
	CRHO =	LDPREND=	LOVISTMP=
	AVIS =	BVIS =	LQTHRCND=
	LTHCNTMP=	ACON =	LTCLOBND=
	LQHTCPPT=	LQHTCPTM=	LHCUPBND=
	LHCLOBND=	SURFTENS=	INTFTTMP=
	SOLUBPNT=	SOLUBTMP=	AVP =
	BVP =	CVP =	AVCP =
	BVCP =	CVCP =	VHCLOBND=
	HTFUSION=	LHTVAPOR=	HTSOLUTN=
	HTREACTN=	HTPOLYMR=	BURNRATE=
	TOXINHAL=	INHALCNC=	UPTOXLIM=
	LAFETOX =	ABFLMTMP=	FLMETEMP=
	MOLFRAC =		

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DEA  CHEMNAME = DIETHANOLAMINE
      PATHCODE = A P Q
MOLEWT = 105.1 NBP = 541.6 NFP = 301.0 CRITTEMP= 115.0 CRITPRES= 0.3200E+07
DENSITY = 1095. DENSTEMP= 301.2 SHPSTATE=L ARHO = 1299. BRHO = -0.6800
CRHO = 0.0000E+00 LDUPREND= 373.2 LDWRBND= 301.2 LVISPT= LVISPT= LOVISIMP=
AVIS = BVIS = LVUPREND= LVUPREND= LVLRBND= LVLRBND= LOTHRCND= LOTHRCND=
LTHCNTMP= ACON = BCON = LTCUPBND= LTCUPBND= LTCLEND= LTCLEND=
LOHTCPPT= 2500. (E) LOHTCPTM= 313.0 (E) AHC = 2500. (E) BHC = 0.0000E+00(E) LHCUPBND= 323.0 (E)
LHCLOBND= 313.0 (E) SURFTENS= SFTNTMP= INTFTES= INTFTTMP=
SOLUBPNT= SOLUBTMP= A = B = AVP = 10.26
BVP = 2329. CVP = -98.76 VPUPREND= 573.2 VPLWRBND= 423.2 AVCP = 0.5573E+05
BVCP = 439.6 CVCP = -0.2345 DVCP = -0.4605E-04 VHCUPBND= 600.0 VHCLOBND= 250.0
HTFUSIGN= 0.2386E+06 LHTVAPOR= 0.6196E+06 HTCOMBNTN= -0.1920E+08(E) HTDECCMP= HTSOLUTN= -0.3000E+05(E)
HTREACTN= HTPOLYMR= LOFLMLIM= 1.600 JFLMLIM= 9.800 BURNRATE=
TOXINHAL= INHALCNC= INHALTME= LOTOXLIN= 0.5000E-03 UPTOXLIM= 0.5000E-02
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL = FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

DEB  CHENAME = DIETHYLBENZENE          PATHCODE = A  T  U
MOLEWT = 134.2      NBP = 453.0      (E) CRITTEMP =
DENSITY = 860.0      OENSTEMP = 293.2      SHPSSTATE=L      APHO = 1157.
CRHO = 0.0000E+00    LDUPREND = 303.2      LDLPREND = 273.2      LQVISPNT = 0.7500E-03(E) LQVISTMP = 293.0 (E)
AVIS = -11.70 (E) 8VIS = 1320. (E) LVUPREND = 303.0 (E) LVLWPREND = 283.0 (E) LQTHRCND = 0.1500 (E)
LTHCNTMP = 293.0 (E) ACON = 0.1500 (E) 8CON = 0.0000E+00(E) LTCUPREND = 298.0 (E) LTCLOBND = 278.0 (E)
LQHTCPPT = 2000. (E) LQHTCPTM = 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPREND = 298.0 (E)
LHCLOBND = 283.0 (E) SURFTENS = 0.3000E-01      SFTNTEMP = 293.2      INTFTENS = 0.5000E-01(E) INTFTTMP = 293.0 (E)
SOLUBPNT = SOLUBTMP = A = 5 = 10.43
8VP = 2456.      CVP = 0.4004E-01      VPUPREND = 423.2      VPLWRBND = 313.2      AVCP =
8VCP = CVCV = DVCP = VHCLOBND =
HTFUSION = LHTVAPOR = 0.3224E+06      HTCOMSTN = -0.4100E+08(E) HTDECCND = VHCLOBND =
HTREACTN = HTPOLYMR = LOFLMLIM = UPFLMLIM = HTSOLUTN =
TOXINHAL = INHALCNC = INHALTME = LOTOXLIM = BURNRATE =
LATETOX = ABFLMTMP = MOLRATIO = UPTOXLIM =
MOLFRAC = FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DEC  CHEMNAME = DIETHYL CARBONATE      PATHCODE = A  T  U
MOLECWT = 118.1      NBP      = 400.0      NFP      = 230.0      CRITTEMP=
DENSITY = 975.0      DENSTEMP= 293.2      SHPSSTATE=L      ARHO      = 1268.      CRITPRES=
CRHO      = 0.0000E+00      LDUPRND= 313.2      LDWRBND= 273.2      LQVISPIT= 0.8680E-03      LOVISTMP= 288.2
AVIS      = -11.46      BVIS      = 1270.      LVUPRND= 313.2      LVLWRBND= 283.2      LOTHRCND= 0.1800      (E)
LTHCNTMP= 293.0      (E)      ACON      = 0.1800      (E)      BCON      = 0.0000E+00      (E)      LTCUPBND= 298.0      (E)      LTCLOBND= 278.0      (E)
LOHTCPPT= 1938.      LOHTCPTM= 293.2      AHC      = 1325.      BHC      = 2.093      LHCUPBND= 373.2
LHCLOBND= 273.2      SURFTENS= 0.2630E-01      SFTNTMP= 293.2      INTFTENS= 0.1286E-01      INTFTTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 10.43
BVP      = 2170.      CVP      = 0.4004E-01      VPUPRND= 403.2      VPLWRBND= 288.2      AVCP      = 0.8400E+05      (E)
BVCP      = 0.0000E+00      (E)      CVCP      = 0.0000E+00      (E)      OVCP      = 0.0000E+00      (E)      VHCUPBND= 400.0      (E)      VHCLOBND= 300.0      (E)
HTFUSIGN=      LHTVAPOP= 0.3056E+06      HTCOMBTN= -0.2180E+08      (E)      HTDECONP=      HTSOLU^N=
HTREACTN=      HTPOLYMR=      LOFLWLM=      UPFLWLM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALIME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OE0	CHEMNAME = DIELDRIN	PATHCODE = II	
MOLEWT =	380.9	NBP =	449.0
DENSITY =	1750.	DENSTEMP =	293.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.1470E-01	INHALCNC =	0.5880E-01
LAETOX =		ABFLMTMP =	
MOLFRAC =			
CRITPRES =		CRITTEMP =	
BRHO =		ARHO =	
LQVISTMP =		LQVISPNT =	
LOTHRCND =		LVLWRBND =	
LTCLOBND =		LTCUPBND =	
LHCUPBND =		EHC =	
INTFTTMP =		INTFTERS =	
AVP =		B =	
AVCP =		VPLWRBND =	
VHCLOBND =		VHCUPBND =	
HTSOLUTN =		HTDECOMP =	
BURNRATE =		UPFLMLIM =	
UPTOXLIM =	0.5000E-03	LOTOXLIM =	0.5000E-04
FLMETEMP =		AIRFUEL =	
		INHALTME =	1800.
		MOLRATIO =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

DEE  CHEMNAME = DICHLOROETHYL ETHER      PATHCODE = A  P  Q  X  Y
MOLECW = 143.0  NBP = 451.0  NFP = 221.0  CRITTEMP =
DENSITY = 1220.  DENTEMP = 293.1  SHPSRATE=L  ARHO = 1554.  BRHO = -1.140
CRHO = 0.0000E+00  LDUPREND = 353.1  LDWREND = 273.1  LOVISPAT = 0.3000E-02  LQVISTMP = 293.1
AVIS = -10.18  (E) 8VIS = 1260.  (E) LVUPREND = 298.1  LVLWREND = 278.1  LQTHRCND = 0.1047  (E)
LTHCNTMP = 293.1  ACON = 0.1047  (E) BCON = 0.0000E+00(E) LTCUPBND = 298.1  LTCLOBND = 278.1
LOHTCPPT = 1591.  LOHTCPTM = 293.1  AHC = 363.6  (E) BHC = 4.187  (E) LHCUPSND = 298.1
LHCLOBND = 278.1  SURFTENS = 0.3730E-01  SFTNTIMP = 292.1  INTFTENS = 0.4000E-01(E) INTFTIMP = 293.1
SOLUBPNT = 1.070  SOLUBTMP = 293.1  A =  =  = 11.22  AVP =
BVP = 2802.  CVP = -0.1500  VPUPREND = 453.1  VPLWREND = 283.1  AVCP = 0.3136E+05(E)
BVCP = 366.2  (E) CVCP = -0.2248  (E) DVCP = 0.3321E-04(E) VHCUPEND = 500.0  VHCLOBND = 250.0
HTFUSION =  LHTVAPOR = 0.3330E+06  HTCONBTN = -0.1750E+08(E) HTDECCRP =  HTSOLUTN =
HTREACTN =  HTPOLYMR =  LOFLMLIM =  UPFLMLIM =  BURNRATE = 0.4008E-04
TOXINHAL = 5.000  INHALCNC = 35.00  INHALTME = 1800.  LOTOXLIM = 0.5000E-04  UPTOXLIM = 0.5000E-03
LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DEG  CHERNAME = DIETHYLENE GLYCOL      PATHCODE = A  P  Q
MOLEWT = 106.1      NBP = 518.0      NFP = 265.0      CRITTEMP= 681.0      CRITPRES= 0.4700E+07
DENSITY = 1118.      DENSTEMP= 293.2      SHPSSTATE=L      ARHO = 1426.      BRHO = -1.050
CRHO = 0.0000E+00      LOUPRENO= 373.2      LDLWRBND= 273.2      LQVISTMP=  LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOEND=
LQHTCPPT= 2307.      LQHTCPTM= 293.2      AHC = 1075.      EHC = 4.187      LHCUPBND= 373.2
LHCLOBNO= 273.2      SURFTENS=      SFTNTEMP=      INTFTES=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 12.80
BVP = 3940.      CVP = 0.4004E-01      VPUPRND= 473.2      VPLWRBND= 293.2      AVCP =
BVCP =      CVCP =      OVCP =      VHCUPBND=      VHCLOBNO=
HTFUSION=      LHTVAPOR= 0.6280E+06      HTCOMBNTN= -0.2237E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.600      UPFLMLIM= 10.80      BURNRATE= 0.2500E-04
TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLM= 0.1500E-01(E) UPTOXLM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PATHCODE = A X Y

[illegible]

OEM	CHEMNAME	DIETHYLENE GLYCOL MONOETHYLETHYL ETHER ACETATE	NAME	CODE	A	P	Q										
MOLEWT	=	204.3	NBP	=	511.0	NBP	=	240.0	CRITPRES	=							
DENSITY	=	985.1	OENSTEMP	=	293.1	SMFS	ATE=1	TEMP	=	1278	(E)	BRNO	=	-1.000	(E)		
CRHO	=	0.0000E+00(E)	LOUPBND	=	303.1	LDUPBND	=	273.1	LOUPBND	=	0.0000E+00	LOUPBND	=	293.1	(E)		
AVIS	=	-12.79	(E)	BVIS	=	2100	(E)	LDUPBND	=	303.1	LDUPBND	=	278.1	LOUPBND	=	0.1512	(E)
LTHCNTMP	=	293.1	ACON	=	0.1512	(E)	BCON	=	0.0000E+00(E)	LDUPBND	=	296.1	LDUPBND	=	283.1	(E)	
LOHTCPT	=	1675	(E)	LOHTCPT	=	293.1	AMC	=	1675	(E)	EMC	=	0.0000E+00(E)	LDUPBND	=	298.1	(E)
LHCLOBND	=	283.1	SURFTENS	=	0.2200E-01(E)	SFTNTEMP	=	293.1	LDUPBND	=	293.1	LDUPBND	=	293.1	(E)		
SOLUBPAT	=	6.500	SOLUBTMP	=	293.1	A	=	293.1	LDUPBND	=	293.1	LDUPBND	=	293.1	(E)		
BVP	=	3588	CVP	=	-0.1500	VCPBND	=	523.1	LDUPBND	=	523.1	LDUPBND	=	523.1	(E)		
BVCP	=		CVCP	=		OVCP	=		LDUPBND	=		LDUPBND	=		(E)		
HTFUSION	=		LHTVAPOR	=	0.2500E+06	HTCONDIT	=	-0.3100E+08(E)	HTCONDIT	=		HTCONDIT	=		(E)		
HTREACTN	=		HTPOLYMR	=		LOFLTLIN	=	0.8000	LOFLTLIN	=		LOFLTLIN	=		(E)		
TOXINHAL	=		INHALCNC	=		INHALWE	=		INHALWE	=		INHALWE	=		(E)		
LATEOX	=		ABFLNTMP	=		MOLRATIO	=		MOLRATIO	=		MOLRATIO	=		(E)		
MOLFRAC	=			=			=			=			=		(E)		

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DEN  CHEMNAME = DIETHYLAMINE
      PATHCODE = A P O R S
MOLEWT = 73.14 NBP = 328.7 NFP = 223.4 CRITTEMP= 496.7 CRITPRES= 0.3710E+07
DENSITY = 703.0 OENSTEMP= 293.2 SHPSTATE=L APOH = 10C9. BRHO = -1.030
CRHO = 0.0000E+00 LDUPRND= 323.2 LDWRSD= 273.2 LOVISPT= LQVISTMP=
AVIS = BVIS = LVUPRSD= LVLWRSD= LQTPCND= 0.1233
LTHCNTMP= 293.2 ACON = 0.2458 BCON = -0.4187E-03 LTCUPSD= 333.2 LTCLOBND= 273.2
LQHTCPPT= 2512. LOHTCPTM= 293.2 AHC = 1369. SHC = 3.894 LHCUPBNO= 353.2
LHCLOBND= 263.2 SURFTENS= 0.2005E-01 SFTNTEMP= 293.2 INTFTENS= INTFTTMP=
SOLUBPNT= SOLUBTMP= A = E = 9.904 AVP =
BVP = 1610. CVP = 0.4004E-01 VPUPRSD= 323.2 VPLWRSD= 273.2 AVCP = 0.1524E+05
BVCP = 367.2 CVCP = -0.1005 DVCP = 0.0000E+00 VHCUPBND= 600.0 VHCLOBNO= 250.0
HTFUSION= LHTVAPOR= 0.3894E+06 HTCOMSTN= -0.4184E+08 HTSOLUTN= -0.4689E+06
HTREACTN= HTPOLYMR= LOFLMLIN= 1.800 UPFLMLIN= 10.10 BURNRATE= 0.1117E-03
TOXINHAL= 25.00 INHALCNC= 100.0 INHALTME= 1800. DTOXLIM= 0.5000E-03 UPTOXLIM= 0.5000E-02
LATETOX = ABFLTMP= MOLRATIO= AIRFUEL = FLWETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DEP  CHEMNAME = DI-(2-ETHYLHEXYL) PHOSPHORIC ACID      PATHCODE = A  T  U
      MOLEWT = 322.4      NBP =      DENSTMP= 293.1      SHPSSTATE=L      NFP = 213.0      (E) CRITTEMP=
      DENSITY = 977.0      (E) BVIS = 8000.      (E) LVUPEND= 303.1      (E) BWC = 1758.      (E) BHC = 1270.      (E) BRHO = -1.000      (E)
      CRHO = 0.0000E+00      LDUPEND= 303.1      (E) LVUPEND= 303.1      (E) BWC = 1758.      (E) BHC = 1270.      (E) BRHO = -1.000      (E)
      AVIS = -30.24      (E) BVIS = 8000.      (E) LVUPEND= 303.1      (E) BWC = 1758.      (E) BHC = 1270.      (E) BRHO = -1.000      (E)
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00      (E) LTCUPEND= 298.1      LTCLOEND= 283.1      LOVISTMP= 293.1
      LQHTCPTP= 1758.      (E) LQHTCPTM= 293.1      AHC = 1758.      (E) BHC = 1270.      (E) BRHO = -1.000      (E)
      LHCLOBNO= 283.1      SURFTENS= 0.2000E-01      (E) SFTNTEMP= 293.1      INTFTENS= 0.3000E-01      (E) INTFTTMP= 293.1
      SOLUBPNT= 0.1000E-01      (E) SOLUBTMP= 293.1      A =      B =      AVP =
      BVP =      CVP =      VPUPEND=      VPLWRBND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOSND=
      HTFUSION=      LHTVAPOR=      HTCONV3TN= -0.3100E+08      (E) HTDECONP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIN=      UPFLMLIN=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      A:RFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DES CHEMNAME = 2.4-D ESTERS

PATHCODE = A X Y

MOLEWT =	262.5	(E) NBP =		NFP =		CRITTEMP=	CRITPRES=
DENSITY =	1150.	(E) DENSTEMP=	293.1	SHPSTATE=L		ARHC =	BRHO =
CRHO =		LDUPREND=		LDLWREND=		LQVISINT=	LOVISTMP=
AVIS =		BVIS =		LVUPREND=		LVLRBEND=	LOTHRCND=
LTHCNTMP=		ACON =		BCCN =		LTCUPBEND=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		AHC =		SPC =	LHCUPEND=
LHCLOBND=		SURFTENS=		SFTNTEMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =		B =	AVP =
BVP =		CVP =		VPUPREND=		VPLWRBEND=	AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBEND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCONSTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIN=	UPTOXLIN=
LAFETOX =		ABFLMTMP=		MOLRATIO=			FLMETEMP=
MOLFRAC =							

0.6170E-03

0.3200E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DET  CHEMNAME = DIETHYLENETRIAMINE          PATHCODE = A  P  Q
MOLEWT = 103.2      NBP = 480.0      CRITTEMP=
DENSITY = 954.0      OENSTEMP= 293.2      SHPSSTATE=L      ARHO = 1247.      CRITPRES=
CRHO = 0.0000E+00      LDUPRNO= 303.2      LDLWBSNO= 283.2      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWBS'D=      LQVISTMP=      LQVISTMP=
LTHCNTMP=      ACON =      BCON =      LTCUPB'D=      LTCLOBND=      LTCLOBND=
LOHTCPPT= 2200.      (E) LOHTCPTM= 293.0      (E) AHC = 2200.      (E) BHC =      LHCUPBND= 298.0      (E)
LHCLOBNO= 273.0      (E) SURFTENS=      SFTNTMP=      INTFTES=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.20
BVP = 2494.      CVP = 0.4004E-01      VUPRND= 473.2      VPLWBS'D= 283.2      AVCP =
BVCP =      CVCP =      DVCV =      VHCUPB'D=      VHCLOBND=
HTFUSIGN=      LHTVAPOR=      HTCOTSTN= -0.3090E+08(E)      HTDECON=      HTSOLUTN= -0.3000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.000      UPFLMLIN= 10.00      BURNRATE=
TOXINHAL= 1.000      INHALINE=      INHALINE=      'OTCXLM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DEZ CHEMNAME = DIETHYLZINC

PATHCODE = A O Z

MOLECWt =	123.5	=	NBP	=	397.0	=	NFP	=	245.0	=	CRITTEMP=	CRITPRES=	
DENSITY =	1207.	=	DENSTEMP=	293.1	=	SHSTATE=L	=	APHO	=	1503.	=	(E) BRHO = -1.000 (E	
CRHO =	0.0000E+00(E)	=	LDUPRNO=	298.1	=	LDLWPRND=	278.1	=	LOVISPT=	0.6950E-03	=	LOVISMP= 293.1	
AVIS =	-11.78	=	(E) 8VIS	=	1320.	=	(E) LVUPRNO=	298.1	=	LVLWRND=	278.1	=	LOTHRND= 0.1628 (E
LTHCNTMP=	293.1	=	ACON	=	0.1629	=	(E) BCON	=	0.0000E+00(E)	LTCUPRND=	298.1	=	LTCLORND= 278.1
LOHTCPTT=	1675.	=	(E) LOHTCPTM=	293.1	=	AHC	=	(E) SHC	=	0.0000E+00(E)	LHCUPRND=	298.1	
LHCLORND=	278.1	=	SURFTENS=	0.2000E-01(E)	=	SFTNTEMP=	293.1	=	INTFTENS=	INTFTTMP=			
SOLUSPT=		=	SOLUBTMP=		=	A	=	B	=	AVP	=	9.823	
BVP =	1910.	=	CVP	=	-0.1500	=	VPUPRND=	373.1	=	VPLWRND=	283.1	=	AVCP =
BVCP =		=	CVCP	=		=	DVCP	=	VHCUPRND=	VHCLOEND=			
HTFUSION=		=	LHTVAPOR=	0.2800E+06	=	HTCONSTN=	-0.2720E+08	=	HTDECOND=	HTSOLUTN=			
HTREACTN=		=	HTPOLYMR=		=	LOFLYLIM=		=	UPFLYLIM=	BURNRATE=			
TOXINHAL=		=	INHALCNC=		=	INHALTWE=		=	LOTOXLIM=	UPTOXLIM=			
LATEIOX =		=	ABFLTMP=		=	MOLRATIO=		=	AIRFUEL =	FLMETEMP=			
MOLFRAC =		=			=			=					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DFA  CHEMNAME = DIFLUOROPHOSPHORIC ACID, ANHYDROUS      PATHCODE = A  0
MOLECWT = 103.0      NBP = 389.0      NFP = 178.0      CRITPRES=
DENSITY = 1583.      DENSTEMP= 298.1      SHPSTATE=L      CRITTEMP=
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLPBND= 273.1      LOVISPT= 1873.      (E) BRHO = -1.000 (E)
AVIS = 8VIS =      LVUPR8ND=      LVLWR8ND=      LQTHRCND= 0.1744 (E)
LTHCNTMP= 293.1      ACON = 0.1744 (E) 8CON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LOHTCPPT= 2093.      (E) LOHTCPTM= 293.1      AHC = 2093.      (E) B-C = 0.0000E+00(E) LHCUPEND= 298.1
LHCLOBND= 283.1      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.457
BVP = 1732.      CVP = -0.1500      VPUPR8ND= 393.1      VPLWR8ND=      VHCLOBND=
BVCP =      CVCP =      DVCP =      HTCON8TN=      HTSOLUTN=
HTFUSION=      LHTVAPOR= 0.3200E+06      HTPOLYMR=      UPFLWLIM=      BURNRATE=
HTREACTN=      INHALCNC=      INHALTME=      LOTCXLIN=      UPTOXLIM=
TOXINHAL=      ABFLWTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
LALETEX =      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DFE  CHEMNAME = 1,1-DIFLUOROETHANE      PATHCODE = A  B  C  D  E  F  G
MOLECWT = 66.05      NBP = 248.5      NFP = 156.0      CRITTEMP= 386.6      CRITPRES= 0.4500E+07
DENSITY = 950.0      DENSTEMP= 293.1      SHPSSTATE=L      ARHO =      BRHO =
CRHO =      LDUPRND=      LOWESND=      LOVISPT= 0.3500E-03      LOVISTMP= 248.4
AVIS = -10.30      BVIS = 583.0      LVUPRND= 298.1      LVLWRND= 248.1      LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPB'D=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      SHC =      LHCUPBNO=
LHCLOBND=      SURFTENS= 0.1125E-01      SFTNTMP= 293.1      INTFTENS=      INTFTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.634
BVP = 1150.      CVP = -0.1500      VPUPRND= 303.1      VPLWRB'D= 248.1      AVCP = 8675.
BVCP = 239.6      CVCP = -0.1457      OVCP = 0.3394E-04      VHCUPB'D= 200.0      VHCLOBNO= 250.0
HTFUSION=      LHTVAPOR= 0.3265E+06      HTCOMBTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 3.700      UPFLMLIN= 18.00      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN=      UPTOXLIN=
LATETOX =      ABFLMTMP=      MOLRATIO= 0.7000      (E) AIRFUEL = 5.196      (E) FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELDS VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DFF  CHEMNAME = DISTILLATE: FLASHED FEED STOCKS      PATHCODE = A  T  U  V  W
MOLEWT =      NBP      = 347.5 (E) NFP      =      CRITTEMP=
DENSITY = 710.0 (E) DENSTEMP= 288.2      SHPSTATE=L      ARHO      =      CRITPRES=
CRHO      = 0.0000E+00(E) LOUPRND= 353.0 (E) LDLWFSND= 273.0 (E) LOVISPT=  (E) LOVISPT=  0.4200E-03(E) LOVISTMP= 293.0 (E)
AVIS      = -11.00 (E) 8VIS      = 943.0 (E) LVUPFSND= 353.0 (E) LVLRBND=  (E) LVLRBND= 273.0 (E) LOTHRCND= 0.1250 (E)
LTHCNTMP= 293.0 (E) ACON      = 0.1930 (E) 8CON      = -0.2300E-03(E) LTCUPBND= 333.0 (E) LTCLOBNO= 283.0 (E)
LOHTCPPT= 2181. (E) LOHTCPTM= 293.0 (E) AHC      = 1250. (E) BHC      =      LHCUPEND= 303.0 (E)
LHCLOBNO= 273.0 (E) SURFTENS= 0.2100E-01(E) SFTNTMP= 293.2      INTFTES= 0.5000E-01(E) INTFTMP= 293.2
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.027 (E)
BVP      = 1268. (E) CVP      = -56.10 (E) VPUPRNO= 403.0 (E) VPLWRBND= 253.0 (E) AVCP      = -2973. (E)
BVCP      = 646.9 (E) CVCP      = -0.2680 (E) OVCP      = 0.0000E+00(E) VHCUPBND= 600.0 (E) VHCLOBNO= 250.0 (E)
HTFUSION=      LHTVAPOR= 0.2973E+06(E) HTCONVTN= -0.4354E+08      HTDECCNP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLVLIM=      LPFLVLIN=      BURNRATE= 0.6667E-04(E)
TOXINHAL=      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DGD  CHEMNAME = DIETHYLENE GLYCOL DIMETHYL ETHER      PATHCODE = A  P  O

MOLEWT = 134.2      NBP = 435.0      CRITEMP=
DENSITY = 945.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1238.
CRHO = 0.0000E+00      LOUPRND= 303.2      LDLWRND= 283.2      LQVISPNT=
AVIS =              BVIS =              LVUPRND=              LVLWRND=
LTHCNTMP=          ACON =              BCON =              LTCUPBND=
LQHTCPT= 2000.      (E) LOHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E) LHCUPBNO= 298.0      (E)
LHCLOSNO= 273.0      (E) SURFTENS=          SFTNTEMP=          INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =              B =
BVP = 2320.      CVP = 0.4004E-01      VFLWRND= 433.2      VPLWRND= 293.2
BVCP =          CVCP =          DVCN =          VHCUPBND=
HTFUSION=          LHTVAPOR= 0.3098E+06      HTCCYSTN= -0.2620E+08(E) HTDECONP=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALIME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO = -1.0000
LQVISTMP=
LOTHRCNO=
LTCLOBNO=
LHCUPBNO= 298.0      (E)
INTFTTMP=
AVP = 10.34
AVCP =
VHCLOBNO=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```


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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DGM CHEMNAME = DIETHYLENE GLYCOL MONOMETHYL ETHER PATHCODE = A P Q

MOLECWt =	120.2	NBP =	467.0	NFP =	188.0	CRITTEMP =	
DENSITY =	1025.	DENSTEMP =	293.2	SHPSIATE=L		ARHO =	1318.
CRHO =	0.0000E+00	LDUPRBND =	303.2	LDLWRBND =	283.2	LQVISIMP =	-1.0000
AVIS =		BVIS =		LVUPRBND =		LQTHRCND =	
LTHCNTMP =		ACON =		BCON =		LTCLOBND =	
LQHTCPT =	2000.	(E) LQHTCPTM =	293.0	(E) AHC =	2000.	(E) EHC =	0.0000E+00(E)
LHCLOBND =	273.0	(E) S-RFTENS =		SFTNTMP =		LHCUPBND =	298.0 (E
SOLUBPNT =		S-LUBTMP =		A =		INTFTIMP =	
BVP =	2820.	CVP =	0.4004E-01	VPUPRBND =	473.2	AVP =	11.04
BVCP =		CVCP =		DVCP =		AVCP =	
HTFUSION =		LHTVAPOR =	0.3768E+06	HTCO*STN =	-0.2600E+08(E)	VHCLDEND =	
HTREACTN =		HTPOLYMR =		LDFL* LIM =		HTSOLUTN =	
TOXINHAL =		INHALCNC =		INHALTME =		BURNRATE =	
LARETOX =		ABFLMTMP =		MOLRATIO =		UPTOXLIM =	0.5000E-02
MOLFRAC =						FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DHN  CHEMNAME = DECAHYDRONAPHTHALENE      PATHCODE = A  T  U
MOLEWT = 138.2      NBP = 458.0      NFP = 231.0      CRITTEMP=
DENSITY = 890.0      DENSTEMP= 293.1      SHPSTATE=L      CRHO = 1125.      BRHO = -0.8000
CRHO = 0.0000E+00      LOUPRNO= 303.1      LOLWRND= 283.1      LQVISTMP= 293.1
AVIS = -11.76      (E) BVIS = 1600.      (E) LVUPRND= 303.1      LVLWRND= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPRND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1591.      LOHTCPTM= 288.1      AHC = 384.6      (E) EHC = 4.187      (E) LHCUPRND= 298.1
LHCLOBNO= 283.1      SURFTENS= 0.3000E-01      SFTNTMP= 293.1      INTFTENS= 0.3500E-01(E) INTFTTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.843
BVP = 2264.      CVP = -0.1500      VPUPRNO= 473.1      VPLWRND= 323.1      AVCP =
BVCP =      CVCN =      OVCP =      VHCUPRND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3000E+06      HTCORSTN= -0.4470E+08      HTDECONP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM= 0.7000      UPFLMLN= 5.400      BURNRATE= 0.9853E-04
TOXINHAL= 25.00      INHALCNC=      INHALTME=      LOTOXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DHP  CHEMNAME = DIHEPTYL PHTHALATE      PATHCODE = A  T  U  X  Y
MOLECWt = 362.0      NBP =              NFP =      CRITTEMP=
DENSITY = 1000.      (E) DENSTEMP= 293.1      SHPSRATE=L      ARHO =
CRHO =              LDUPREND=              LDWREND=      LOVISIMP=
AVIS =              BVIS =              LVUPREND=      LQTHRCND=
LTHCNTMP=          ACON =              BCON =      LTCLODEND=
LOHTCPPT=          LDHTCPTM=          AHC =      LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=      INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =      AVP =
EVP =              CVP =              VPUPREND=      AVCP =
EVCP =              CVCP =              DVCP =      VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCCOYSTN= -0.3920E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALIME=      LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PATHCODE = A P O R S

[illegible]

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/51/15 PAGE313

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DID	CHEMNAME = DIISOUCEYL PHTHALATE	PATHCODE = A T U	
MOLEWT =	446.7	NFP =	223.0
DENSITY =	967.0	SHSTATE=L	
CRHO =		LOLRBND=	293.1
AVIS =	-25.36	BVIS =	6800.
LTHCNTMP=		ACON =	
LOHTCPPT=		LOHTCPTM=	
LHCLOBNO=		SURFTENS=	
SOLUBPNT=		SOLUBTMP=	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION=		LHTVAPOR=	
HTREACTN=		HTPOLYMR=	
TOXINHAL=		INHALCNC=	
LAETOX =		ABFLMTMP=	
MOLFRAC =			
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
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		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	
		CVCP =	
		LHTVAPOR=	
		HTPOLYMR=	
		INHALCNC=	
		ABFLMTMP=	
		NFP =	223.0
		SHSTATE=L	
		LOLRBND=	293.1
		BVIS =	6800.
		ACON =	
		LOHTCPTM=	
		SURFTENS=	
		SOLUBTMP=	
		CVP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DIH CHEMNAME = DIISOPROPYLBENZENE HYDROPEROXIDE

PATHCODE = A T U

MOLEWT = 194.3	NBP =	NFP = 264.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 956.0	DENSTEMP = 288.1	SHPSATE=L	ARHO = 1231.	(E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E)	LDUPREND = 298.1	LDLWREND =	LOVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRSND =	LOTHRCND =
LTHCNTMP =	ACCN =	BCCN =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPREND =	VPLWRSND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCO:STN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DIK  CHEMNAME = DIISOBUTYL KETONE          PATHCODE = A  T  U
      MOLEWT = 142.2      NBP = 436.0      NFP = 231.0      CRITTEMP=
      DENSITY = 806.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1275.
      CRHO = 0.000DE+00      LDUPREND= 303.1      LDLWRBND= 273.1      LQVISPT= 0.920DE-03
      AVIS = -11.99      8VIS = 1464.      LVUPRSNO= 313.1      LVLWRBND= 273.1      LQTHRCNO= 0.1512 (E)
      LTHCNTMP= 293.1      ACON = 0.1512 (E)      BCON = 0.000DE+00(E)      LTCUPBND= 298.1      LTCLOBND= 288.1
      LQHTCPPT=      LOHTCPTM=      AHC =      BHC =
      LHCLOBNO=      SURFTENS= 0.2392E-01      SFTNTMP= 295.1      INTFTES=      INTFTTMP=
      SOLU8PNT= 0.5000E-01      SOLUBTMP= 293.1      A =      B =      AVP = 10.44
      8VP = 2368.      CVP = -0.15D0      VRUPRBN= 436.1      VPLWRBND= 293.1      AVCP =
      8VCP =      CVCP =      DVCP =      VHCUPBND=
      HTFUSION=      LHTVAPOR= 0.28DCE+06      HTCOMSTN=      HTDECOM=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIN= 0.8100      UPFLMLIN= 7.100      BURNRATE=
      TOXINHAL= 25.00      INHALCNC= 50.00      INHALTME= 18D0.      LOTOXLIN= 0.50DDE-02      UPTOXLIM= 0.1500E-01
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DIM  CHEMNAME = OIMETHYL ETHER
      MOLEWT = 46.10      NBP = 248.5      NFP = 131.7      PATHCODE = A B C K L M N
      DENSITY = 724.0      OENSTEMP = 248.4      SHPSTATE=L      CRITTEMP = 400.1      CRITPRES = 0.5400E+07
      CRHO = 0.0000E+00      LOUPRSNO = 313.1      LOLWBSND = 253.1      LQVISPAI = 0.2350E-03      LOVISTMP = 248.6      BRHO = -1.500
      AVIS = -10.74      BVIS = 592.0      LVUPRSNO = 273.1      LVLWRSND = 233.1      LQTRPCND = 0.1396
      LTHCNTMP = 248.6      ACON = 0.2380      ECON = -0.4070E-03      LTCUPEND = 273.1      LTCLOBND = 233.1      LHCUPEND = 273.1
      LOHTCPPT = 2261.      LOHTCPTM = 248.4      AHC = 1222.      SHC = 4.187      INTFTENS = 0.1500E-01(E)      INTFTMP = 233.1      AVP = 9.943
      LHCLOBNO = 243.1      SURFTENS = 0.2100E-01      SFTNTMP = 233.1      A = 233.1      B = 193.1      AVCP = 0.2581E+05
      SOLUBPNT = 7.000      SOLUBTMP = 293.1      VPUPRSND = 253.1      VPLWRSND = 600.0      VHCLBSND = 250.0
      BVP = 1227.      CVP = -0.1500      VPUPRSND = 253.1      VPLWRSND = 600.0      VHCLBSND = 250.0
      BVCP = 135.2      CVCP = 0.0000E+00      OVCP = 0.0000E+00      HTOECOMP = HTSOLUTN =
      HTFUSION =      LHTVAPOR = 0.4650E+06      HTCOASTN = -0.3130E+08      UPFLMLIN = 50.00      BURNRATE = 0.1102E-03
      HTRACTN =      HTPOLYMR =      LOFLMLIN = 2.000      UPFLMLIN = 50.00      BURNRATE = 0.1102E-03
      TOXINHAL =      INHALCNC =      INHALTME =      LOTOXLIN =      UPTOXLIM =
      LATETOX =      ABFLNTMP =      MOLRATIO = 0.8000      (E) AIRFUEL = 8.934      (E) FLMETEMP =
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DIP  CHEMNAME = OIIISOPROPANOLAMINE      PATHCODE = A  P  Q
MOLEWT = 133.2      NBP = 521.9      CRITTEMP= 672.0      CRITPRES= 0.3600E+07
DENSITY = 990.0      OENSTEMP= 315.2      SHPSSTATE=L      ARHO = 1211.      BRHO = -0.7000
CRHO = 0.0000E+00      LDUPRBND= 373.2      LDLWRBND= 315.2      LOVISPRIT= LOVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 2200.      (E) LQHTCPTM= 323.0      (E) AHC = 2200.      (E) BHC = 0.0000E+00(E) LHCUPBND= 333.0      (E
LHCLOBND= 320.0      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 12.03
BVP = 3600.      CVP = 0.4004E-01      VPUPRBND= 473.2      VPLWRBND= 315.2      AVCP =
BVCP =      CVCP =      DVCP =      VVCUPBND=      VHCLOBND=
HTFUSION= 0.1968E+06      LHTVAPOR= 0.4312E+06      HTCOMSTN= -0.2870E+08(E) HTDECONP=      HTSOLUTN= -0.3000E+05(E
HTREACTN=      HTPOLYMP=      LOFLMLIN= 1.100      UPFLMLIN= 5.400      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN= 0.5000E-03      UPTOXLIN= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DLP  CHEMNAME = DALAPON
MOLECW = 143.0  NBP = 463.0  PATHCODE = A P Q
DENSITY = 139D.  OENSTEMP = 296.1  CRITTEMP = 281.0  CRITPRES =
CRHO =  LOUPREND =  SHPSTATE=L  ARHO =  BRHO =
AVIS =  LDLPBND =  LVLWRBND =  LOVISPT =  LOVISIMP =
LHCNTNP =  BCON =  AHC =  LTCUPBND =  LTCLOSND =
LOHTCPPT =  SURFTENS =  SFTNTEMP =  BHC =  LHCUPBND =
LHCLOBND =  SOLUBTMP =  A =  B =  INTFTIMP =
SOLUBPNT =  CVP = 0.5D00E-01  VPUPBND = 473.1  VPLWRBND = 343.1  AVCP =
BVCP =  CVCP =  DVC =  VHCUPBND =  VHCLOBND =
HTFUSION =  LHTVAPOR =  HTCCBND =  HTSOLUTN =
HTREACTN =  HTPOLYMR =  LOFLMLIM =  UPFLMLIM =  BURNRATE =
TOXINHAL =  INHALCNC =  INHALTME =  LDTOXLIM =  UPTOXLIM = 0.8000E-02
LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
MOLFRAC =

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[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DMD  CHEMNAME = DIMETHYLOICHLOROSILANE          PATHCODE = A  0

MOLEWT = 129.0      NEP = 343.7      NFP = 187.0      CRITTEMP=
DENSITY = 1070.     OENSTEMP= 298.1    SHPSSTATE=L    ARHO =
CPHO = 0.0000E+00(E) LDUPRBN= 303.1    LOLWRBN= 273.1    LQVISPNT=
AVIS = -11.61 (E) BVIS = 1320. (E) LVUPRBN= 303.1    LVLWRBND=
LTHCNTMP= 293.1    ACON = 0.1628 (E) BCON = 0.0000E+00(E) LTCUPSPC=
LOHTCPPT= 1675. (E) LOHTCPTM= 293.1    AHC = 1675. (E) BHC =
LHCLOBN= 283.1    SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.1    INTFTENS=
SOLUBRT=          SOLUBTMP=          A = 8 =
BVP = 1645.        CVP = -0.1500    VPUPRBN= 344.1    VPLWRBND=
BVCP =            CVCP =          OVCP =          VHCUPEND=
HTFUSIGN=          LHTVAPOR= 0.2400E+06    HTCORSTN= -0.1400E+08(E) HTOECOMP=
HTREACTN=          HPOLYNR=          LOFLMLIM= 1.400    UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =
CRITPRES=
      (E) BRHO = -1.000 (E)
      1363.      0.8200E-03(E) LQVISTMP= 293.1
      283.1      LQTHRCNO= 0.1628 (E)
      303.1      LTCLOBND= 283.1
      0.0000E+00(E) LHCUPBND= 303.1
      INTFTTMP=
      AVP = 9.792
      283.1      AVCP =
      VHCLOBNO=
      HTSOLUTN=
      9.500      BURNRATE= 0.5511E-04
      0.5000E-04      UPTOXLIM= 0.5000E-03
      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DME  CHEMNAME = DIETHYLENE GLYCOL MONOBUTYL ETHER      PATHCODE = A  P  O
MOLECWT = 162.2      NBP = 504.0      NFP = 205.0      CRITTEMP=
DENSITY = 954.0      DENSTEMP= 293.1      SMPSTATE=L      ARHO = 1174.      BRHO = -0.7500
CRHO = 0.0000E+00      LDUPRBND= 313.1      LDLRBND= 273.1      LQVISPNT= 0.6300E-02      LQVISTMP= 293.1
AVIS = -13.31      BVIS = 2417.      LVUPRBND= 343.1      LVLWRBND= 273.1      LQTHRCND= 0.1628
LTHCNTMP= 288.1      ACCN = 0.162B      (E) BCON = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLOBND= 283.1
LOHTCPPT= 2177.      LOHTCPTM= 293.1      AHC = 1157.      EHC = 3.475      LHCUPBND= 333.1
LHCLOBND= 273.1      SURFTENS= 0.3400E-01      SFTNTEWP= 298.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.87
BVP = 2954.      CVP = -0.1500      VPUPRBND= 503.1      VPLWRBND= 373.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3100E+06      HTCOBNTN= -0.3300E+08(E)      HTDECOEF=      HTSOLUTN= -0.8400E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.5511E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

DMF CHEMNAME = DIMETHYLFORMAMIDE

PATHCODE = A P Q

MOLEWT = 73.09	NBP = 426.0	NFP = 212.0	CRITTEMP =	CRITPRES =
DENSITY = 950.0	OENSTEMP = 293.2	SHPSTATE = L	ARHO = 1234.	BRHO = -0.9700
CRHO = 0.0000E+00	LOUPRSNO = 373.2	LOLWRSND = 273.2	LOVISDNT =	LOVISTMP =
AVIS =	BVIS =	LVLUPRSNO =	LVLWRSND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 2052.	LQHTCPTM = 293.2	AHC = 1438.	BHC = 2.093	LHCUPBNO = 373.2
LHCLOBND = 253.2	SURFTENS =	SFTINTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 10.76
BVP = 2406.	CVP = 0.4004E-01	VPUPRSNO = 373.2	VPLWRSND = 253.2	AVCP = 0.1876E+05
BVCP = 244.9	CVCP = 0.0000E+00	OVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.5778E+06	HTCOMBNTN = -0.2624E+08	HTDECOMP =	HTSOLUTN = -0.1465E+06
HTREACTN =	HTPOLYMR =	LOFLMLIM = 2.200	UPFLMLIM = 15.20	BURNRATE = 0.3667E-04
TOXINHAL = 10.00	INHALCNC =	INHALTME =	LOTOXLIV = 0.5000E-02	UPTOXLIM = 0.1500E-01
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DMH	CHEMNAME = 1,1-DIMETHYLHYDRAZINE	PATHCODE = A	P	Q	R	S
MOLECWT =	EO.11	NBP =	336.5	NFP =	216.0	CRITTEMP= 522.0
DENSITY =	791.0	DENSTEMP=	293.2	SHPSSTATE=L		BRHO = -1.0000
CRHO =	0.0000E+00	LDUPREND=	323.2	LDLWPREND=	273.2	LOVISTMP=
AVIS =		BVIS =		LVUPREND=		LOTHRCND=
LTHCNTMP=		ACON =		BCON =		LTCLOEND=
LOHTCPPT=	2730.	LGHTCPTM=	298.2	AHC =	1481.	LHCUPBND= 323.2
LHCLOBND=	283.2	SURFTENS=	0.2800E-01	SFTNFEVP=	298.2	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =		AVP = 10.30
BVP =	1784.	CVP =	0.4004E-01	VPUPREND=	333.2	AVCP = 0.6300E+05(E
BVCP =	0.0000E+00(E)	CVCP =	0.0000E+00(E)	DVCP =	0.0000E+00(E)	(E) VHCLOEND= 300.0 (E
HTFUSION=		LHTVAPOR=	0.6071E+06	HTCOMSTN=	-0.3295E+08	HTSOLUTN= -0.6000E+05(E
HTREACTN=		HTPOLYMR=		LOFLWLIM=	2.000	BURNRATE= 0.6333E-04
TOXINHAL=	0.5000	INHALCNC=	100.0	INHALTME=	600.0	UPTOXLIM= 0.5000E-03
LATETOX =		ABFLMTMP=		MOLRATIO=		FLMETEMP=
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DMP  CHEMNAME = DIMETHYL POLYSILOXANE
      MOLECW =  NBP = 422.D (E) NFP =  CRITTEMP =  CRITPRES =
      DENSITY = 980.0  DENSTEMP = 293.1  SHPSSTATE=L  APHO = 1273. (E) BRHO = -1.000 (E)
      CRHO = 0.0000E+00(E) LDUPREND = 303.1  LDLEPREND = 273.1  LQVISPNT =  LQVISTMP =
      AVIS = 8VIS =  LVUPREND =  LVLWRBND =  LQTHRCND = 0.1744
      LTHCNTMP = 293.1  ACON = 0.1744 (E) BCON = 0.0000E+00(E) LTCUPBND = 303.1  LTCLOBND = 283.1
      LQHTCPPT = 1675. (E) LOHTCPTM = 293.1  AHC = 1675. (E) BHC = 0.0000E+00  LHCUPBND = 303.1
      LHCLOBND = 283.1  SURFTENS = 0.2000E-01(E) SFTNTEMP = 293.1  INTFTENS = 0.3000E-01(E) INTFTTMP = 293.1
      SOLUBPNT = 0.1000 (E) SOLUBTMP = 293.1  A =  B =  AVP =
      BVP =  CVP =  VPUPREND =  VPLWRBND =  AVCP =
      BVCP =  CVCP =  DVCP =  VHCUPBND =  VHCLOBND =
      HTFUSION =  LHTVAPOR =  HTCOYSTN = -0.2600E+08(E) HTDECOMP =  HTSOLUTN =
      HTREACTN =  HTPOLYMR =  LOFLMLIM =  UPFLMLIM =  BURNRATE =
      TOXINHAL =  INHALCNC =  INHALTME =  LOTOXLM =  UPTOXLM =
      LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DMS  CHEMNAME = DIMETHYL SULFOXIDE          PATHCODE = A  P  Q
MOLEWT = 78.13      NBP = 462.0      NFP = 291.8      CRITTEMP=
DENSITY = 1101.      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1393.      CRITPRES=
CRHO = 0.0000E+00      LDUPRBN= 313.2      LCLWRBND= 291.2      LCVISPRNT=      BRHO = -1.0000
AVIS =      BVIS =      LVUPRBN=      LOTHRCNO=      LOVISTMP=
LTHCNTMP=      BCON =      LVCUPRBN=      LTCLOBNO=      LOTHRCNO=
LOHTCPT= 1968.      LOHTCPTN= 293.2      AHC = 1468.      EHC = 1.675      LHCUPEND= 423.2
LHCLOBND= 291.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.56
BVP = 2570.      CVP = 0.4004E-01      VPUPRBN= 413.2      VPLAPEND= 291.2      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPRBN=      VHCLOBNO=
HTFUSCN= 0.1842E+05      LHTVAPOR= 0.6029E+06      HTCCWBTN= -0.2533E+08      HTSOLUTN= -0.2261E+06
HTREACTN=      HTPOLYMR=      LOFLMLIM= 3.000      UPFLMLIM= 63.00      BURNRATE= 0.3333E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.1500E-01(E)      UPTOXLIM=
LATETOX =      ABFLTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DMT      CHEMNAME = DIMETHYL TEREPHTHALATE      PATHCODE = A T U X Y II
MOLECW = 194.2      NBP = 555.0      NFP = 413.0      CRITTEMP =      CRITPRES =
DENSITY = 1200.      OENSTEMP = 293.1      SHPSSTATE = S      BRHO =      BRHO =
CPHO =      LDUPRENO =      BVIS = 2162.      LVLPRENO = 523.1      LCVISPT = 0.5100E-03      LOVISTMP = 473.1
AVIS = -12.16      ACON =      BCON =      LTCUPBND = 423.1      LOTHRCNO =
LTHCNTMP =      LOHTCPTN =      AHC =      BHC =      LTCLOBNO =
LHCLOBND =      SURFTENS =      SFTNTEMP =      INTFTENS =      LHCUPEND =
SOLUBPNT =      SOLUBTMP =      A =      B =      INTFTIMP =
BVP =      CVP =      VUPRENO =      VPLWPBND =      AVP =      AVCP =
BVCP =      CVCP =      OVCP =      VHCUPBND =      VHCLOBNO =
HTFUSION =      LHTVAPOR = 0.2810E+06      HTCO*BTN = -0.2396E+08      HTSOLUTN =
HTREACTN =      HTPOLYMR =      LOFLMLIN =      BURNRATE =
TOXINHAL =      INHALCNC =      INHALTME =      UPTOXLM = 0.5000E-03      0.5000E-02
LAFETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DMZ  CHEMNAME = DIMETHYLZINC      PATHCODE = A  0  Z
MOLEWT = 55.40      NBP = 318.0      NFP = 231.0      CRITTEMP=
DENSITY = 1390.      DENSTEMP= 283.6      SHPSRATE=L      BRHO = 1683.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRNO= 303.1      LDLWRNO= 273.1      LOVISPT= 0.8200E-03(E) LOVISTMP= 293.1
AVIS = -11.61      (E) BVIS = 1320.      (E) LVUPRNO= 303.1      LVLWRNO= 283.1      LOTHRCNO= 0.1628      (E)
LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E) LTCUPBNO= 303.1      LTCLOBNO= 283.1
LOHTCPT= 1926.      (E) LOHTCPTM= 293.1      AHC = 1926.      EPC = 0.0000E+00      LHCUPEND= 303.1
LHCLOBNO= 283.1      SURFTENS= 0.1800E-01(E) SFTNTEMP= 293.1      INTFTES= INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          S =          AVP =          9.786
BVP = 1520.      CVP = -0.1500      VPUPRNO= 323.1      VPLWRNO= 273.1      AVCP =
BVCP =          CVCP =          DVCP =          LHCUPBNO=          VHCLOBNO=
HTFUSION=          LHTVAPOR= 0.3100E+06(E) HTCONBTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLNLIM=          UPFLMLIN=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALIME=          LOTOXLIN=          UPTOXLIN=
LATETOX =          ABFLNTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PA^THCODE = YI

MOLECWT =	168.1	NBP	=	564.0	NFP	=	363.0	CRITTEMP=	CRITPRES=
DENSITY =	1580.	DENSTEMP=		291.1	SHPSIATE=S			ARHO	BRHO
CRHO	=	LDUPREND=			LDLWRBND=			LOVISPT=	LOVISTMP=
AVIS	=	BVIS	=		LVUPREND=			LVLWRBND=	LQTHRCND=
LTHCNTMP=		ACON	=		BCON	=		LTCUPBND=	LTCLOEND=
LQHTCPPT=		LQHTCPTM=			AHC	=		SHC	LHCUPBND=
LHCLOBND=		SURFTENS=			SFTNTIMP=			INTFTENS=	INTFTTMP=
SOLUBPNT=	0.7500E-02	SOLUBTMP=		288.1	A	=	-0.1366	B	AVP
BVP	=	CVP	=		VPUPREND=			VPLWRBND=	AVCP
BVCP	=	CVCP	=		DVCP	=		VHCUPBND=	VHCLOEND=
HTFUSION=		LHTVAPOR=			HTCOMSTN=		-0.1715E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=			LOFLWFLIM=			LOFLMLIN=	BURNRATE=
TOXINHAL=	0.1330	INHALCNC=			INHALTME=			LOTOXLIN=	UPTOXLIM=
LATETOX	=	ABFLMTMP=			MOLRATIO=			AIRFUEL	FLMETEMP=
MOLFRAC	=								

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DNC CHEMNAME = DINITROGRESOLS PATHCODE = II

MOLEWT = 198.0	NBP =	NFP = 356.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 1100.	(E) OENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LDVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBRND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTERS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	OVCP =	VHCUPBRND =	VHCLOBND =
HTFUSIGN =	LHTVAPOR =	HTCONSTN =	HTDECCN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	LOFLMLIM =	BURNRATE =
TOXINHAL = 0.2260E-01	INHALCNC = 0.1132	INHALTME = 1800.	LOTOXLIM =	UPTOXLIM = 0.5000E-04(E
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

DNP	CHEMNAME = 2,4-DINITROPHENOL			PATHCODE = II			
	MOLECWT = 184.1	NBP =		NFP = 386.0	CRITTEMP=	CRITPRES=	
	DENSITY = 1680.	DENSTEMP=	293.2	SHPSTATE=S	ARHO =	BRHO =	
	CRHO =	LDUPREND=		LDLWRBND=	LQVISPNT=	LQVISTMP=	
	AVIS =	BVIS =		LVUPRSND=	LVLWRBND=	LOTHRCND=	
	LTHCNTMP=	ACON =		BCON =	LTCUPBND=	LTCLOBND=	
	LQHTCPPT=	LQHTCPTM=		AHC =	BHC =	LHCUPBND=	
	LHCLOBND=	SURFTENS=		SFTNTEMP=	INTFTENS=	INTFTTMP=	
	SOLUBPNT=	SOLUBTMP=		A =	B =	AVP =	
	BVP =	CVP =		VPUPREND=	VPLWRBND=	AVCP =	
	BVCP =	CVCP =		DVCP =	VHCUPBND=	VHCLOBND=	
	HTFUSIGN=	LHTVAPOR=		HTCOV3TN=	HTDECOVS=	HTSOLUTN=	
	HTREACTN=	HTPOLYMR=		LOFLYLIM=	UPFLYLIM=	BURNRATE=	
	TOXINHAL=	INHALCNC=		INHALTME=	LOTOXLIM=	UPTOXLIM=	
	LAFETOX =	ABFLMTMP=		MOLRATIO=	AIRFUEL =	FLMETEMP=	
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DNT      CHEMNAME = 2,4-DINITROANILINE      PATHCODE = 11
MOLECWT = 183.1      NBP      =      NFP      = 460.0
DENSITY = 1615.      DNSTEMP= 288.2      SHSTATE=S
CRHO    =      LDUPREND=
AVIS    =      BVIS      =      LVUPREND=
LTHCNTWP=      ACON      =      LTCUPBND=
LOHTCPPT=      LOHTCPTM=      SHC      =
LHCLOBND=      SURFTENS=      INTFTENS=
SOLUBPNT=      SOLUTEMP=      A      =      B      =
BVP      =      CVP      =      VPLWRBND=      AVCP      =
BVCP      =      CVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMBGN=      HTSOLUTN=
HTREACTN=      H1POLYMR=      UPFLMLIN=      BURNRATE=
TOXINHAL=      INHALCNC=      IMAHLM=      UPTOXLIM=
LATETOX =      ABFLTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO     =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP      =
AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DOA CHEMNAME = DIOCTYL ADIPATE PATHCODE = A T U

MOLEWT =	371.0	NBP =		CRITTEMP=		CRITPRES=	
DENSITY =	928.0	DENSTEMP=	293.2	SHPSSTATE=L		ARHO =	1221.
CRHO =	0.0000E+00	LDUPREND=	303.2	LDLWRSND=	288.2	LQVISPT=	0.1300E-01
AVIS =	-11.01	BVIS =	1955.	LVUPRSND=	333.2	LVLWRBND=	283.2
LTHCNTMP=	293.0	(E) ACON =	0.1500	(E) BCON =	0.0000E+00(E)	LTCUPBND=	298.0
LQHTCPPT=	2000.	(E) LQHTCPTM=	293.0	(E) AHC =	2000.	(E) BHC =	0.0000E+00(E)
LHCLOBND=	273.0	(E) SURFTENS=	0.1500E-01(E)	SFTNTEMP=	293.0	(E) INTFTENS=	0.3000E-01(E)
SOLUBPNT=		SOLUBTMP=		A =		B =	
BVP =		CVP =		VPUPRSND=		VPLWRBND=	
BVCP =		CVCP =		DVCP =		VHCUPBND=	
HTFUSION=		LHTVAPOR=		HTCOMSTN=	-0.3590E+08(E)	HTDECONP=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	0.5000E-02
LAFETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	
MOLFRAC =						UPTOXLIM=	0.1500E-01
						FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

DOD CHEMNAME = OOOECENE

PATHCODE = A T U

MOLECW = 168.3	NBP = 458.0	(E) NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 770.0	OENSTEMP = 293.2	SHPSATE=L	ARHO =	972.0	(E) BRHO = -0.7300 (E)
CRHO = 0.0000E+00(E)	LOUPBNO = 373.0	(E) LOLWPBND =	273.0	(E) LQVISPT =	0.1300E-02(E) LQVISTMP = 293.0 (E)
AVIS = -11.33	(E) BVIS = 1374.	(E) LVUPRBN =	373.0	(E) LVLWRBN =	273.0 (E) LQTHRCNO = 0.1500 (E)
LTHCNTMP = 293.0	(E) ACON = 0.1500	(E) BCON =	0.0000E+00(E)	LTCUPBN =	303.0 (E) LTCLOBND = 273.0 (E)
LQHTCPPT = 2000.	(E) LQHTCPTM = 293.0	(E) AHC =	2000.	(E) BHC =	0.0000E+00(E) LHCUPBNO = 303.0 (E)
LHCLOBNO = 273.0	(E) SURFTENS = 0.2400E-01(E)	SFTNTMP =	293.0	(E) INTFTENS =	0.4000E-01(E) INTFTTMP = 293.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	10.81 (E)
BVP = 2783.	(E) CVP = 0.0000E+00(E)	VPUPR3ND =	423.0	(E) VPLWRBN =	293.0 (E) AVCP = 0.2097E+05(E)
BVCP = 928.0	(E) CVCP = -0.3290	(E) OVCP =	0.0000E+00(E)	VHCUPBN =	600.0 (E) VHCLOBND = 250.0 (E)
HTFUSION =	LHTVAPOR = 0.2550E+06(E)	HTCOVSTN =	-0.4400E+08(E)	HTOECONP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	
TOXINHAL = 200.0	INHALCNC =	INHALTIME =	LOTOXLIM =	0.1500E-01(E)	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DOP      CHEMNAME = DIOCTYL PHTHALATE      PATHCODE = A   T   U   X   Y
MOLEWT = 390.6      NBP      = 659.2      NFP      =      CRITTEMP=
DENSITY = 980.0      OENSTMP= 298.2      SHPSRATE=L      ARHO      = 1273      BRHO      = -1.0000
CRHO      = 0.0000E+00      LOUPRNO= 303.2      LOLPRND= 273.2      LOVISPT= 0.5900E-02(E) LOVISTMP= 293.0 (E)
AVIS      = -18.80 (E) 8VIS      = 4000.      (E) LVUPRNO= 298.0 (E) LVLWRND= 273.0 (E) LOTHRCNO= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON      = 0.1500 (E) BCCN      = 0.0000E+00(E) LTCUPBND= 298.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 2000.      (E) LOHTCPTM= 293.0 (E) AHC      = 2000. (E) BHC      = 0.0000E+00(E) LHCUPBND= 298.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= 0.1500E-01(E) SFTNTEMP= 293.0 (E) INTFTENS= 0.3000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT= 0.5000E-02      SOLUBTMP= 298.2      A      =      B      =      AVP      = 12.88
BVP      = 5013.      CVP      = -0.1599      VPUPRND= 503.2      VPLWRND= 443.2      AVCP      =
BVCP      =      CVCP      =      OVCP      =      VHCUPEND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOWSTN= -0.3590E+08(E) HTOECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLNLIM=      UPFLNLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      -JTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX =      ABFLNTMP=      MOLRAT'0=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DOX  CHEMNAME = 1,4-DIOXANE
      MOLEWT = 88.11      NBP = 374.5      NFP = 285.2      CRITPRES = 0.5210E+07
      OENSITY = 1036      OENSTEMP = 293.2      SHPSTATE=L      CRITTEMP = 587.0
      CRHO = 0.0000E+00      LOUPRBN0 = 373.2      LOLWRSNO = 288.2      LJVISPNT = 1387.
      AVIS = 8VIS =      LVUPRSD =      BCON =      LVCUPEND =      LTHRCNO =
      LTHCNTMP =      LOHTCPTM = 293.2      AHC = 955.0      BHC = 2.512      LTHCLOBNO =
      LHCLOBNO = 288.2      SURFTENS =      SFTNIEMP =      INTFTTMS =      LHCUPBNO = 453.2
      SOLUSPNT =      SOLUBTMP =      A =      B =      AVP = 10.24      INTFTTMP =
      8VP = 1960.      CVP = 0.4004E-01      VPUPRSD = 403.2      VPLWRB'D = 288.2      AVCP = -0.1051E+05
      8VCP = 373.9      CVCP = -0.7955E-01      OVCP = 0.0000E+00      VHCUPB'D = 600.0      VHCLOBNO = 250.0
      HTFUSION =      LHTVAPOR = 0.4128E+06      HTCOMB'TN = -0.2696E+08      HTSOLUTN = -0.2000E+05(E
      HTREACTN =      HTPOLYMR =      LOFLVLIM = 1.970      UPFLMLIM = 22.50      BURNRATE =
      TOXINHAL = 100.0      INHALCNC =      INHALTME =      LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
      LAIETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
      MOLFRAC =

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PATHCCDE = A

MOLECWT =	278.3	NBP	=	608.0	NFP	=	238.0	CRITTEMP=	773.0	CRITPRES=	0.1700E+07
DENSITY =	1049.	DENSTEMP=	293.2	SHPS:ATE=L	SHPS:ARHO	=	1295.	8RHO	=	-0.8400	
CRHO	=	0.0000E+00	LDUPRND=	373.2	LDLWRND=	273.2	LOVISRNT=	0.2000E-01	LOVISTMP=	293.2	
AVIS	=	-12.52	BVIS	=	2522.	LVUPRND=	323.2	LVLWRND=	283.2	LOTHRND=	0.1500 (E
LTHCNTMP=	293.0	(E) ACON	=	0.1500	(E) BCON	=	0.0000E+00(E)	LTCUPRND=	293.0	(E) LTCLO8ND=	273.0 (E
LOHTCPTP=	2200.	(E) LOHTCPTM=	293.0	(E) AHC	=	2200.	(E) BHC	=	0.0000E+00(E)	LHCUP8ND=	293.0 (E
LHCL08ND=	273.0	(E) SURFTENS=	0.3400E-01	SFTNTEMP=	293.2	INTFTENS=	0.5000E-01(E)	INTFTTMP=	293.0	(E	
SOLUBPNT=		SOLUBTMP=	A	=	B	=	AVP	=	13.21		
BVP	=	4690.	CVP	=	0.4004E-01	VPUPRND=	473.2	AVCP	=		
BVCP	=		CVCP	=	DVCP	=	VHCL08ND=				
HTFUSION=		LHTVAPOR=	HTC0V9TN=	-0.3060E+08(E)	HTDECOMP=	HTSOLUTN=					
HTREACTN=		HTPOLYMR=	LOFLMLIM=	0.5000	UPFLMLIM=	BURNRATE=					
TOXINHAL=	0.4030	INHALCNC=	INHALTVE=	LOTOXLIM=	0.5000E-02	UPTOXLIM=	0.1500E-01				
LATETOX	=	ABFLMTMP=	MOLRATIO=	AIRFUEL	=	FLMETEMP=					
MOLFRAC	=										

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DPD  CHEMNAME = DIPHENYLDICHLOROSILANE          PATHCODE = A  0
MOLEWT = 253.0      NBP = 577.0      NFP =
DENSITY = 1220.      OENSTMP= 298.1      SHPSRATE=L
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LOLWREND= 283.1      LOVISPRIT= 0.5700E-02(E) LOVISTMP= 293.1      (E) BRHO = -1.000      (E)
AVIS = -18.81      (E) 8VIS = 4000.      (E) LVUPR3ND= 303.1      LVLWREND= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOEND= 283.1
LOHTCPPT= 167S.      (E) LOHTCPTM= 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2600E-01(E) SPNTTEMP= 293.1      INTFTENS=
SOLUBTMP=          A =          B =
BVP = 3211.      CVP = -0.1500      VPUPR3ND= 577.1      VPLWREBID= 473.1      AVCP =
BVCP =          CVCV =          DVCP =          VHCUPBID=          VHCLOBND=
HTFUSION=          LHTVAPOR= 0.2500E+06      HTCON3TN= -0.2600E+08(E) HTDECCMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLMIM=          UPFLMLIM=          BURNRATE= 0.4509E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PATHCODE = A T

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DPG  CHEMNAME = DIPROPYLENE GLYCOL      PATHCODE = A  P  Q
MOLEWT = 134.2      NBP = 489.0      (E) CRITTEMP= 655.0      CRITPRES= 0.3600E+07
DENSITY = 1023.      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1237.      BRHO = -0.7300
CRHO = 0.0000E+00      LDUPRBND= 373.2      LOLWRBND= 273.2      LOVISPT=      LOVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LOTHRCOND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPPT= 2407.      LOHTCPT= 293.2      AHC = 1057.      BHC =      LHCUPBND= 413.2
LHCLOBND= 273.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.663
BVP = 2546.      CVP = 0.4004E-01      VPUPRBND= 423.2      VPLWRBND= 293.2      AVCP = 0.4534E+05
BVCP = 632.2      CVCP = -0.3559      DVCP = 0.7118E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      HTVAPOR= 0.4019E+06      HTCOND= -0.2620E+08(E)      HTDECOMP=      HTSOLUTN= -0.3000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.200      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLI= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DPH  CHEMNAME = DIETHYL PHTHALATE
      MOLEWT = 222.0      NBP = 571.7      NFP = 270.0      CRITPRES=
      DENSITY = 1120.      OENSTEMP= 293.1      SHPSTATE=L      ARHO = 1120.      BRHO = 0.0000E+00
      CRHO = 0.0000E+00      LOUPRBNO= 298.1      LOLWESND= 283.1      LOVISFNT= 0.1210E-01      LQVISTMP= 293.1
      AVIS = -18.83      BVIS = 4225.      LVUPRSND= 298.1      LVLWRBND= 273.1      LQTHRCNO=
      LTHCNTMP=      ACCN =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPPT=      LOHTCPTM=      AHC =      BHC =      LHCUPBNO=
      LHCLOBND=      SURFTENS= 0.3750E-01      SFTNTEMP= 293.1      INTFTENS= 0.1627E-01      INTFTIMP= 293.6
      SOLUBPNT= 0.1200E-01      SOLUBTMP= 293.1      A =      B =      AVP =
      BVP =      CVP =      VPUPRSND=      VPLWRBND=      AVCP =
      BVCP =      CVCP =      OVCP =      VHCUPBNO=      VHCLOBNO=
      HTFUSIGN=      LHTVAPOR=      HTCORSTN= -0.2660E+08(E)      HTOECONP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLALIM= 0.7500      UPFLMLIN=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTIME=      LOTCXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DPM

CHEMNAME = DIPHENYLMETHANEDIISOCYANATE (MDI)

PATHCODE = II

MOLEWT = 250.3	NBP = 665.0	NFP = 311.0	CRITTEMP =	CRITPRES =
DENSITY = 1200.	DENSTEMP = 293.2	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWESND =	LQVISPAT =	LQVISTMP = 310.9
AVIS = -12.34	BVIS = 2276.	LVUPREND = 373.2	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPEND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPRSND =	VPLWREND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMYSTN =	HTDECCMP =	HTSOLUTN = -0.6000E+05(E
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL = 0.2000	INHALCNC =	INHALTIME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DPN  CHEMNAME = DIPENTENE
      PATHCODE = A T U
      MOLEWT = 136.2 NBP = 451.0 NFP = 233.0 CRITTEMP= CRITPRES=
      DENSITY = 850.0 DENSTEMP= 293.1 SHPSRATE=L ARHO = 1143. (E) BRHO = -1.000 (E)
      CRHO = 0.0000E+00(E) LDUPRND= 303.1 LDLWRSND= 273.1 LQVISPAT= 0.9000E-03 LOVISTMP= 293.1
      AVIS = -14.18 (E) BVIS = 2100. (E) LVUPRND= 303.1 LVLWRSND= 273.1 LOTHRCND= 0.1512 (E)
      LTHCNTMP= 293.1 ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPRND= 303.1 LTCLOBND= 283.1
      LOHTCPPT= 1842. LOHTCPTM= 293.1 AHC = 614.8 (E) BRC = 4.187 (E) LHCUPBND= 303.1
      LHCLOBND= 273.1 SURFTENS= 0.2600E-01(E) SFTNTMP= 293.1 INTFTENS= 0.274SE-01 INTFTMP= 306.6
      SOLUBPNT= SOLUBTMP= A = B = AVP = 10.28
      BVP = 2300. CVP = -0.1500 VPUPRND= 303.1 VPLWRND= 273.1 AVCP =
      BVCP = CVCP = DVCP = VHCUPRND= VHCLOBND=
      HTFUSION= LHTVAPOR= 0.3200E+06 HTCCSTN= -0.4400E+08(E) HTOECOMP= HTSOLUTN=
      HTREACTN= HTPOLYMR= LOFLMLIM= 0.7000 UPFLMLIM= 6.100 BURNRATE= 0.9185E-04
      TOXINHAL= INHALCNC= INHALTME= LOTOXLIM= 0.5000E-02 UPTOXLIM= 0.1500E-01
      LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
      MOLFRAC =
  
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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DPO	CHEMNAME = DIBENZOYL PEROXIDE	PATHCODE = II	
MOLEWT =	242.2	NFP =	376.0
DENSITY =	1334.	SHPSATE=S	
CRHO =		LDLWRBND=	
AVIS =		LVUPRND=	
LTHCNTMP=		BCON =	
LQHTCPPT=		AHC =	
LHCLOBND=		SFTINTMP=	
SOLUBPNT=	19.00 (E)	SOLUBTMP=	298.2
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSCN=		LHTVAPOR=	
HTREACTN=		HTPOLYMR=	
TOXINHAL=	0.4630	INHALCNC=	
LAFETOX =		ABFLMTMP=	
MOLFRAC =		MOLRATIO=	
		INHALTME=	
		LOFLMLIM=	
		HTCOLISTN=	
		VUPRND=	
		A =	
		SFTINTMP=	
		BHC =	
		LTCUPBND=	
		LVLWRBND=	
		LOVISPT=	
		ARHO =	
		CRITTEND=	
		CRITPRES=	
		AVP =	
		AVCP =	
		VHCLOBND=	
		HTSOLUTN=	
		BURNRATE=	
		UPTOXLIN=	0.5000E-03
		FLMETEMP=	
			C.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DPP CHEMNAME = DICHLOROPROPANE

PATHCODE = A X Y

MOLEWT = 102.9	NBP = 369.6	NFP = 173.0	CRITTEMP=	CRITPRES=	
DENSITY = 1158.	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 1562.	BRHO =	-1.400
CRHO = 0.0000E+00	LDUPRNO= 373.2	LDLWRBND= 293.2	LOVISPT= 0.9900E-03	LOVISTMP=	283.2
AVIS = -10.96	PVIS = 1146.	LVUPRNO= 333.2	LVLWRBND= 283.2	LQTHRCND=	0.1524
LTHCNTMP= 293.2	ACON = 0.3569	BCON = -0.6978E-03	LTCUPBND= 333.2	LTCLOBNO=	263.2
LQHTCPPT= 1461.	LQHTCPTM= 293.2	AHC = 1093.	BHC = 1.256	LHCUPBNO=	373.2
LHCLOBND= 253.2	SURFTENS= 0.2900E-01	SFTNTEMP= 293.2	INTFTENS= 0.5000E-01(E)	INTFTTMP=	293.0 (E
SOLUBPNT= 0.2600	SOLUBTMP= 293.2	A =	B =	AVP =	9.945
BVP = 1820.	CVP = 0.4004E-01	VPUPRNO= 373.2	VPLWRBND= 273.2	AVCP =	0.1968E+05
BVCP = 304.8	CVCP = -0.1382	OVCP = 0.0000E+00	VHCUPBND= 600.0	VHCLOBNO=	250.0
HTFUSION=	LHTVAPOR= 0.2834E+06	HTCOMPNTN= -0.1700E+08(E)	HTDECONP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLWLM= 3.400	UPFLWLM= 14.50	BURNRATE=	0.5330E-04(E
TOXINHAL= 75.00	INHALCNC=	INHALTIME=	LOTOXLIM= 0.5000E-03	UPTOXLIM=	0.5000E-02
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DPT  CHEMNAME = DICYCLOPENTADIENE      PATHCODE = A  T  U
MOLEWT = 132.3      NBP      = 443.0      NFP      = 278.0      CRITTEMP=
DENSITY = 978.0      DENSTEMP= 293.2      SHPSTATE=L      ARHC      =
CRHO      = 0.0000E+00      LDUPRBN= 303.2      LDWRSND= 283.2      LOVISPT= 0.7000E-03(E) LOVISTMP= 298.0 (E)
AVIS      = -11.70 (E) BVIS      = 1320. (E) LVUPRBN= 298.0 (E) LVLRBND= 283.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 298.0 (E) ACON      = 0.1500 (E) BCON      = 0.0000E+00(E) LTCUPBND= 298.0 (E) LTCLOBND= 283.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 298.0 (E) AHC      = 2000. (E) BHC      = 0.0000E+00(E) LHCUPBND= 298.0 (E)
LHCLOBND= 288.0 (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 298.0 (E) INTFTES= 0.5000E-01(E) INTFTTMP= 298.0 (E)
SOLUBPNT= 0.2000E-01(E) SOLUBTMP= 293.2      A      =      B      =      AVP      = 9.623 (E)
BVP      = 2045. (E) CVP      = 0.0000E+00(E) VPUPRBN= 443.0 (E) VPLWRBND= 283.0 (E) AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2950E+06(E) HTCONB3TN= -0.4060E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM= 0.8000      UPFLWLIM= 6.300      BURNRATE=
TOXINHAL= 75.00 (E) INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DSD CHEMNAME = DODECYL SULFATE, OIETHANOLAMINE SALT PATHCODE = A P

MOLECW =	NBP =	NFP =	CRITTEP =	CRITPRES =
DENSITY = 1010.	OENSTEMP = 293.1	SHPSTATE=L	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWPSND =	LQVISPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRSND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPRSND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOWSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIV =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

DSF CHEMNAME = DIMETHYL SULFATE

PATHCODE = A P O X Y

MOLEWT = 126.1	NBP =	462.D	NFP =	241.4	CRITPRP=	CRITPRES=	
DENSITY = 133D.	DENSTEMP=	288.2	SHPSSTATE=L		ARHO =	BRHO =	-1.200
CRHO = 0.0000E+00	LDUPRNO=	298.2	LDLWBND=	273.2	LOVISPRIT=	LOVISTMP=	273.2
AVIS = -11.51	BVIS =	1531.	LVUPRND=	373.2	LVLARBND=	LOTHRCND=	
LTHCNTMP=	ACDN =		BCCN =		LTCUPBND=	LTCLOBND=	
LOHTCPPT= 2500.	(E) LOHTCPTM=	293.0	AHC =	2500.	(E) BHC =	LHCUPEND=	298.0 (E
LHCLOBND= 273.0	(E) SURFTENS=	0.401DE-01	SFTNTEMP=	291.2	INTFTENS=	INTFTTMP=	293.0 (E
SOLUBPNT= 2.800	SOLUBTMP=	29D.9	A =		B =	AVP =	10.13
BVP = 2425.	CVP =	0.4004E-01	VPUPRND=	393.2	VPLWRBND=	AVCP =	
BVCP =	CVCP =		DVCP =		VHCUPBND=	VHCLOBND=	
HTFUSIGN=	LHTVAPOR=		HTCCNSTN=		HTDECCP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=		LCFLMLIM=		UPFLMLIN=	BURNRATE=	
TOXINHAL= 1.000	INHALCNC=		INHALTME=		LOTOXLIN=	UPTOXLIM=	0.5000E-03
LAFETOX =	ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=	
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DSL CHEMNAME = DIMETHYL SULFIDE

PATHCODE = A P Q T U V W

MOLECWt = 62.10	NBP = 310.0	NFP = 175.0	CRITTEMP = 502.0	CRITPRES = 0.5690E+07
DENSITY = 850.0	OENSTEMP = 293.1	SHPSSTATE=L	ARHO = 1198.	BRHO = -1.200
CRHO = 0.0000E+00	LOUPRBND = 353.1	LOLRBND = 273.1	LOVISPT = 0.2890E-03	LQVISTMP = 293.1
AVIS = -10.66	BVIS = 736.0	LVUPRBND = 303.1	LVLRBND = 253.1	LQTHRCND = 0.1279
LTHCNTMP = 293.1	ACON = 0.2814	BCON = -0.5234E-03	LTCUPBND = 313.1	LTCLOSND = 273.1
LQHTCPPT = 1867.	LQHTCPTM = 293.1	AHC = 1476.	BHC = 1.340	LHCUPBND = 353.1
LHCLOBND = 273.1	SURFTENS = 0.2650E-01	SFTNTEMP = 284.1	INTFTENS = 0.3000E-01(E)	INTFTTMP = 293.1
SOLUBPNT = 2.000	SOLUBTMP = 298.1	A =	8 =	AVP = 9.828
BVP = 1495.	CVP = -0.1500	VPUPRSNO = 323.1	VPLWRBND = 223.1	AVCP = 0.3336E+05
BVCP = 125.6	CVCP = 0.0000E+00	OVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.4520E+06	HTCOMBNTN = -0.3070E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 2.200	UPFLMLIM = 19.70	BURNRATE = 0.8016E-04
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PATHCODE = A P

MOLECW	SS5.0	NBP	=	NFP	=	CRITTEVP	=	CRITPRES
DENSITY	1040.	DENSTEMP	=	293.1	=	SHPSTATE=L	=	BRHO
CRHO		LOUPRND	=	LDLWRND	=	LOVISPAT	=	LOVISIMP
AVIS		BVIS	=	LVUPRND	=	LVLWRBD	=	LOTHRCND
LTHCNTMP		ACON	=	BCON	=	LTCUPBD	=	LTCLOBND
LOHTCPPT		LOHTCPTM	=	AHC	=	EHG	=	LHCUPBND
LHCLOBND		SURFTENS	=	SFTNTEMP	=	INTFTENS	=	INTFTTMP
SDLUBPNT		SOLUBTMP	=	A	=	B	=	AVP
BVP		CVP	=	VPUPRND	=	VPLWRBD	=	AVCP
BVCP		CVCP	=	DVCP	=	VHCUPBD	=	VHCLOBND
HTFUSION		LHTVAPOR	=	HTCOYSTN	=	HTDECOMP	=	HTSOLUTN
HTREACTN		HTPOLYMR	=	LOFLMLIM	=	LPFLMLIN	=	BURNRATE
TOXINHAL		INHALCNC	=	INPALTME	=	LOTOXLIM	=	UPTOXLIM
LAFETOX		ABFLMTMP	=	MOLRATIO	=	AIRFUEL	=	FLMETEMP
MOLFRAC								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

DSR CHEMNAME = DISTILLATE:STRAIGHT RUN

PATHCODE = A T U V W

MOLEWT =	347.5	(E)	NFP	=	CRITTEMP=		CRITPRES=	
DENSITY =	710.0	(E)	DENSTEMP=	288.2	SHPSSTATE=L		ARHO =	456.3 (E) BRHO = -0.9000 (E)
CRHO =	0.0000E+00(E)		LOUPRNO=	353.0	(E)	LWLWRND=	273.0 (E) LOVISPI,T= 0.4200E-03(E) LQVISTMP= 293.0 (E)	
AVIS =	-11.00	(E)	BVIS =	943.0	(E)	LVUPRNO=	353.0 (E) LVLWRND= 273.0 (E) LQTHRCND= 0.1250 (E)	
LTHCNTMP=	293.0	(E)	ACON =	0.1930	(E)	8CON =	-0.2300E-03(E) LTCUPBND= 333.0 (E) LTCLO8NO= 283.0 (E)	
LOHTCPTM=	2181.	(E)	LOHTCPTM=	293.0	(E)	AHC =	1250. (E) BHC = 3.180 (E) LHCUPBNO= 303.0 (E)	
LHCLO8ND=	273.0	(E)	SURFTENS=	0.2100E-01(E)		SFTNTEMP=	293.2 INTFTENS= 0.5000E-01(E) INTFTTMP= 293.2	
SOLUBPNT=			SOLUBTMP=			A =	B = 9.027 (E)	
BVP =	1268.	(E)	CVP =	-56.10	(E)	VPUPRNO=	403.0 (E) VPLWRND= 253.0 (E) AVCP = -2973. (E)	
8VCP =	643.9	(E)	CVCP =	-0.2680	(E)	OVCP =	0.0000E+00(E) VHCUPBND= 600.0 (E) VHCLO8NO= 250.0 (E)	
HTFUSION=			LHTVAPOR=	0.2973E+06(E)		HTCON:STN=	-0.4354E+08 HTSOLUTN=	
HTREACTN=			HTPOLYMR=			LOFLW:LIM=	1.100 UPFLW:LIM= 8.700 BURNRATE= 0.6667E-04(E)	
TOXINHAL=			INHALCNC=	500.0		INHALTME=	1800. LOTOXLIN= 0.5000E-03 UPTOXLIM= 0.5000E-02	
LATETOX =			ABFLMTMP=			MOLRATIO=	AIRFUEL = FLMETEMP=	
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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DSS  CHEMNAME = DIOCTYL SODIUM SULFOSUCCINATE      PATHCODE = II  SS
      MOLECW = 444.0      NBP =      42B.0
      DENSITY = 1100.      OENSTMP = 293.1      CRITPRES =
      CRHO =      LDUPRBNO =      CRHO =
      AVIS =      BVIS =      LOVISPT =
      LTHCNTMP =      ACON =      LVCUPBND =      LOTHRCND =
      LQHTCPPT =      LQHTCPTM =      BHC =      LTCLOBND =
      LHCLOBND =      SURFTENS =      SFTNTEMP =      LHCUPBNO =
      SOLUBPNT = 1.500      SOLUBTMP = 303.1      INTFTMP =
      BVP =      CVP =      A =      AVP =
      BVCP =      CVCP =      DVCN =      VPLWRBND =
      HTFUSION =      LHTVAPOR =      HTCO3TN =      VHCLOBND =
      HTREACTN =      HTPOLYMR =      LOFLMLIN =      HTSOLUTN =
      TOXINHAL =      INHALCNC =      INHALTME =      BURNRATE =
      LATETOX =      ABFLMTMP =      MOLRATIO =      UPTOXLIM = 0.5000E-03
      MOLFRAC =      MOLRATIO =      AIRFUEL =      FLMETEMP =
      CRITPRES =
      BRHO =
      LOVISPT =
      LOTHRCND =
      LTCLOBND =
      LHCUPBNO =
      INTFTMP =
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM = 0.5000E-02
      FLMETEMP =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/52/28 PAGE354

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DST CHEMNAME = DODECYL SULFATE, TRIETHANOLAMINE SALT PATHCODE = A P

MOLEWT =	415.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	1100.	(E) DENSTEMP=	293.1	ARHO =	BRHO =
CRHO =		LDUPRBND=	LDLWRBND=	LQVISPNT=	LQVISTMP=
AVIS =		BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=		ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=	A =	B =	AVP =
BVP =		CVP =	VPUPRBND=	VPLWRBND=	AVCP =
BVCP =		CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=	HTCCNSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=	INHALIME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =		ABFLNTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DTC CHENAME = DODECYLTRICHLOROSILANE PATHCODE = A 0

MOLECW = 303.7 NBP = 422.0 (E) NFP = CRITTEMP = CRITPRES = (E) BRHO = -1.000 (E)

DENSITY = 1030. OENSTEMP = 293.1 SHPSSTATE=L ARHO = 1323. LQVISTMP = LQVISTMP = LQTHRCND = 0.1512 (E)

CRHO = 0.0000E+00(E) LOUPRENO = 303.1 LOLWPSND = 283.1 LQVISPT = LQVISPT = LQTHRCND = 0.1512 (E)

AVIS = BVIS = LVUPRSND = LVLWRB'D = LQTHRCND = 0.1512 (E)

LTHCNTMP = 293.1 ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPB'D = 303.1 LTCLOBNO = 283.1

LQHTCPPT = 1884. (E) LOHTCPTM = 293.1 AHC = 656.7 (E) BHC = 4.187 (E) LHCUPBNO = 303.1

LHCLOBNO = 283.1 SURFTENS = SFTNTEMP = INTFTEMP = INTFTEMP = INTFTEMP =

SOLUBPNT = SOLUBTMP = A = B = AVP = AVCP = VHCLOBND =

BVP = CVP = VPUPRSND = VPLWPB'D = VHCLOBND = HTSOLUTN =

BVCP = CVCP = DVCP = VHCUPB'D = HTSOLUTN = BURNRATE =

HTFUSION = LHTVAPOR = HTCOYSTN = -0.2600E+08(E) HTDECOPE = HTSOLUTN = BURNRATE =

HTREACTN = HTPOLYMR = LCFLYLIM = UPFLMLIM = UPTOXLIM = 0.5000E-04 0.5000E-03

TOXINHAL = INHALCNC = INHALTME = LOTOXLIM = UPTOXLIM = 0.5000E-04 0.5000E-03

LATETOX = ABFLMTMP = MOLRATIO = AIRFUEL = FLWETEMP =

MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DTH      CHEMNAME = OOWTHERM
MOLECW = 166.0      NBP = 530.0      NFP = 285.0      CRITTEMP = 773.0      CRITPRES = 0.3100E+07
DENSITY = 1060.      OENSTEMP = 294.2      SHPSTATE=L      ARHO = 1295.      BRHO = -0.8000
CRHO = 0.0000E+00      LDUPRENO = 373.2      LOLWPSND = 285.2      LQVISPT = 0.3240E+02      LQVISTMP = 298.2
AVIS = -11.60      8VIS = 1749.      LVUPPSND = 373.2      LVLWRBND = 293.2      LQTHRCND = 0.1407
LTHCNTMP = 293.2      ACON = 0.1748      BCCN = -0.1163E-03      LTCUPBND = 473.2      LTCLOBND = 288.2
LQHTCPPT = 1574.      LQHTCPTM = 293.2      AHC = 753.6      EHC = 2.805      LHCUPBND = 403.2
LHCLOBNO = 285.2      SURFTENS = 0.4010E-01      SFINTEMP = 293.2      INTFTENS = 0.3000E+01(E)      INTFTIMP = 295.0 (E)
SOLUBPNT = 0.1380E-02      SOLUBTMP = 288.7      A = 10.90      AVP = 10.90
EVP = 3073.      CVP = 0.4004E-01      VPUPREND = 473.2      VPLWRBND = 323.2      AVCP = 0.5778E+05
EVCP = 452.2      CVCP = 0.0000E+00      OVCP = 0.0000E+00      VHCUPBND = 600.0      VHCLOBND = 300.0
HTFUSIGN = 0.9797E+05      LHTVAPOR = 0.3256E+08      HTCO/SIN = -0.3256E+08      HTSOLUTN = 6.200      HTSOLUTN = 6.200
HTREACTN = 0.5000      LOFLMLIM = 0.5000      UPFLMLIM = 6.200      BURNRATE = 6.200
TOXINHAL = 0.5000E-03      INHALTME = 0.5000E-03      LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
LATETOX = 0.5000E-03      MOLRATIO = 0.5000E-03      AIRFUEL = 0.5000E-02
MOLFRAC = 0.5000E-02
*****

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/52/33 PAGE357

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DTM CHEMNAME = 4,4P-DICHLORO-ALPHA-TRICHLORO-METHYLBEN- PATHCODE = II

MOLECW = 470.5	NBP = 412.0	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1100.	(E) DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRNO =	LDLWRND =	LQVISTMP =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPND =	LTCLOBND =
LQHTCPPT =	LOHTCPTM =	AHC =	LHCUPND =	LHCUPND =
LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTIMP =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =	AVP =
BVP =	CVP =	VPUPRND =	AVCP =	AVCP =
BVCP =	CVCP =	OVCP =	VHCLOBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCCMSTN =	HTSOLUTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.100	BURNRATE = 0.9686E-04	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.500E-02	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DTN  CHEMNAME = DEMETON
      MOLEWT = 258.0      NBP = 413.0      (E) NFP =
      DENSITY = 1100.     DENSTEMP = 293.1  SHPSSTATE=L
      CRHO = 0.0000E+00(E) LDUPRND = 298.1  LDLWFSND = 283.1
      AVIS =
      LTHCNTMP =
      LQHTCPPT =
      LHCLOBND =
      SOLUBPNT =
      BVP =
      BVCP =
      HTFUSION =
      HTPOLYMR =
      TOXINHAL = 0.8700E-02  INHALCNC = 0.4300E-01  LOFLWLIM = 1.000
      LATETOX =
      MOLFRAC =
      PATHCODE = A X Y
      CRITPRES =
      (E) BRHO = -1.000 (E)
      LOVISTMP =
      LOTHRCND =
      LTCLOBND =
      LHCUPBND =
      INTFTIMP =
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE = 0.9686E-04
      UPTOXLIM = 0.5000E-04(E)
      FLMETEMP =
      CRITTENP =
      ARHO = 1373.
      LQVISPAT =
      LVLRBND =
      LTCUPBND =
      BHC =
      INTFTENS =
      B =
      VPLWRBND =
      VHCUPBND =
      HTDECONP =
      UPFLWLIM = 5.300
      LOTOXLIM =
      AIRFUEL =
      SFTNTEMP =
      A =
      VPUPRSNO =
      DVCP =
      HTCONSTN =
      LOFLWLIM = 1.000
      INHALTME = 1800.
      MOLRATIO =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DTS  CHEMNAME = DEXTROSE SOLUTION.          PATHCODE = A  P
MOLECNT =      NBP      = 373.0 (E) NFP      = 273.0 (E) CRITTEMP=
DENSITY = 1000. (E) DNSTEMP= 293.2 SHFSTATE=L  LHC      = 1200. (E) BRHO      = 0.0000E+00(E
CRHO      = 0.0000E+00(E) LDUPREND= 300.0 (E) LDLWESND= 273.0 (E) LQVISPNT= 0.1900E-02(E) LOVISTMP= 293.0 (E
AVIS      = -10.71 (E) BVIS      = 1300. (E) LVUPREND= 300.0 (E) LVLWRSND= 273.0 (E) LOTHRCND= 0.3300 (E
LTHCNTMP= 293.0 (E) ACON      = 0.3300 (E) BCON      = 0.0000E+00(E) LTCUBELD= 300.0 (E) LTCLOSND= 280.0 (E
LQHTCPT= 3500. (E) LQHTCPTM= 293.0 (E) AHC      = 3500. (E) BHC      = 0.0000E+00(E) LHCUPEND= 300.0 (E
LHCLOSND= 273.0 (E) SURFTENS= 0.6000E-01(E) SFTNTMP= 293.0 (E) INTFTENS=
SOLUBPNT=      SOLUBTMP=      A      =      B      =
BVP      =      CVP      =      VPUPREND=      VPLWRSND=      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPREND=      VHCLOSND=
HTFUSION=      LHTVAPOR=      HTCOMSTN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
LATETOX  =      ABFLMTMP=      MOLRATIO=      AIRFUEL  =
MOLFRAC  =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
DTT  CHEMNAME = 2,4-DINITROTOLUENE      PATHCODE = A  X  Y  I1
MOLEWT = 182.1      NBP = 343.0      CRITTEMP=
DENSITY = 1320.      DENSTEMP= 293.1      SHPSTATE=S      ARHO =
CRHO =      LDUPREND=      LOVISPRNT=      LOVISTMP=
AVIS =      BVIS =      LVUPPRND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTEMP=      INTFTIMP=
SOLUBPNT= 0.2700E-01      SOLUBTMP= 295.1      A = -0.5002E-01      B = 0.2600E-03      AVP =
BVP =      CVP =      VPUPPRND=      VPLWRB:D=      AVCP =
BVCP =      CVCP =      DVCP =      VHCLOBND=
HTFUSIGN=      LHTVAPOR= 0.3900E+06      HTCOM3TN= -0.1930E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.1850      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM= 0.5000E-04(E
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PATHCODE = A X Y

[illegible]

DZP	CHEMNAME = DI-(P-CHLOROBENZOYL) PEROXIDE		PATHCODE = II	
	MOLEWT = 311.1	NBP =	NFP =	CRITERP=
	DENSITY = 1100.	(E) OENSTEMP= 293.1	SHSTATE=S	BRHO =
	CRHO =	LDUPREND=	LDLWRBND=	LQVISTMP=
	AVIS =	BVIS =	LVUPREND=	LOTHRCND=
	LTHCNTMP=	ACON =	BCON =	LTCLOBND=
	LOHTCPPT=	LOHTCPTM=	AHC =	LHCUPBND=
	LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
	SOLUBPNT=	SOLUBTMP=	A =	AVP =
	BVP =	CVP =	VPLUPREND=	AVCP =
	BVCP =	CVCP =	DVCP =	VHCLOBND=
	HTFUSION=	LHTVAPOR=	HTCOM%BTN= -0.2100E+08(E)	HTSOLUTN=
	HTREACTN=	HTPOLYMR=	LOFLW LIM=	BURNRATE=
	TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=
	LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
	MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EAA  CHEMNAME = ETHYL ACETOACETATE          PATHCODE = A  P  Q

MOLEWT = 130.1      NBP = 457.0      NFP = 193.0      (E) CRITTEMP=
DENSITY = 1028.      DENSTEMP= 293.1      SHPSSTATE=L      ARHO = 1321.      CRITPRES=
CRHO = 0.0000E+00    LDUPRBD= 303.1      LDLWRBD= 273.1      LQVISPNT= 0.1710E-02    LQVISTMP= 293.1      BRMO = -1.000
AVIS = -20.01      (E) BVIS = 4000.      (E) LVUPRBD= 298.1      LVLWRBD= 273.1      LQTHRCND= 0.1512      LQTHRCND= 0.1512      (E
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPB:D= 298.1      LTCLOBND= 278.1
LQHTCPPT= 1926.      LQHTCPTM= 298.1      AHC = 428.0      BHC = 5.024      LHCUPEND= 323.1
LHCLOBND= 273.1      SURFTENS= 0.3250E-01      SFTNTMP= 293.1      INTFTES=S      INTFTIMP= 293.1
SOLUBPNT= 13.00      SOLUBTMP= 290.1      A = 8      B = 9.675
BVP = 2134.      CVP = -0.1500      VPUPRBD= 458.1      VPLWRB:D= 323.1      AVCP =
BVCP = 2134.      CVCP = 2134.      DVCP = 2134.      VHCUPB:D= 2134.      VHCLOBND=
HTFUSION= 2134.      LHTVAPOR= 0.3800E+06      HTCONSTN= -0.2173E+08      HTSOLUTN=
HTREACTN= 2134.      HTPOLYMR= 2134.      LOFLMLIM= 1.400      UPFLMLIN= 9.500      BURNRATE= 0.4008E-04
TOXINHAL= 2134.      INHALCNC= 2134.      INHALTME= 2134.      LOTOXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX = 2134.      ABFLMTMP= 2134.      MOLRATIO= 2134.      AIRFUEL = 2134.      FLMETEMP=
MOLFRAC = 2134.

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PATHCODE = A P Q T U Z

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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EAD  CHEMNAME = ETHYLALUMINUM DICHLORIDE      PATHCODE = A  O  Z
MOLEWT = 130.0  NBP = 467.0  CRITTEMP = 305.0  CRITPRES =
DENSITY = 1227.  DENSTEMP = 308.1  SHPSSTATE=L  APRHO = 1690.  BRHO = -1.500
CRHO = 0.0000E+00  LDUPPENO = 353.1  LDLWRBND = 308.1  LOVISPT = 308.1  LQVISTMP =
AVIS = -11.72  BVIS = 1700.  LVUPBND = 353.1  LVLWRBND = 308.1  LOTHRCND = 0.1512  (E)
LTHCNTMP = 308.1  ACON = 0.1512  (E)  BCON = 0.0000E+00(E)  LTCUPBND = 318.1  LTCLOENO = 308.1
LOHTCPT = 1926.  (E)  LOHTCPTM = 308.1  AHC = 1926.  (E)  BHC = 0.0000E+00(E)  LMCUPBND = 318.1
LHCLOBND = 308.1  SURFTENS = 0.3000E-01(E)  SFTNTMP = 308.1  INTFTERS = 10.39
SOLUBNT = 2520.  CVP = -0.1500  VPUPBND = 453.1  VPLWRBND = 323.1  AVCP =
BVCP = 308.1  CVCP = 308.1  DVCP = 308.1  VHCUPBND = 308.1  VHCLOENO =
HTFUSION = 308.1  LHTVAPOR = 308.1  HTCONSTN = -0.1300E+08(E)  HTSOLUTN =
HTREACTN = 308.1  HTPOLYMR = 308.1  LOFLMLIN = 308.1  UPFLMLIN =
TOXINHAL = 308.1  INHALCNC = 308.1  INHALTME = 308.1  LOTOXLIN =
LARETOX = 308.1  ABFLMTMP = 308.1  MOLRATIO = 308.1  AIRFUEL =
MOLFRAC = 308.1  FLMETEMP = 308.1

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EAI CHEMNAME = 2-ETHYLHEXYL ACRYLATE. INHIBITED

PATHCODE = A T U Z

MOLECWT =	184.2	NBP =	487.0	NFP =	183.0	CRITTEN=	CRITPRES=
DENSITY =	885.0	DENSTEMP=	293.1	SHSTATE=L		ARHO =	BRHO = -0.9000
CRHO =	0.0000E+00	LOUPRND=	323.1	LDLW=END=	263.1	LQVISPAT=	LQVISTMP= 293.1
AVIS =	-12.75	BVIS =	1885.	LVUPRND=	323.1	LVLWRBD=	LQTHRCND= 0.1512
LTHCNTNP=	293.1	ACON =	0.1512	(E) BCON =	0.0000E+00(E)	LTCUPBD=	LTCLOSND= 278.1
LQHTCPPT=	1758.	LQHTCPTM=	293.1	AHC =	531.1	BHC =	LHCUPBND= 323.1
LHCLOBND=	273.1	SURETENS=	0.2600E-01(E)	SFINTEMP=	293.1	INTFEMS=	INTFTTMP= 293.1
SOLUBPNT=	0.3400	SOLUBTMP=	293.1	A =		B =	AVP = 10.49
BVP =	2672.	CVP =	-0.1500	VPUPRND=	513.1	VPWRBD=	AVCP =
BVCP =		CVCP =		OVCP =		VHCUPBD=	VHCLGBND=
HTFUSION=		LHTVAPOR=	0.2600E+06	HTCOWBTN=	-0.3600E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	-0.3300E+06	LOFLMLIM=	0.8000	UPFLMLIM=	BURNRATE= 0.7682E+04
TOXINHAL=		INHALCNC=		INHALTIME=		LOTOXLIN=	UPTOXLIM= 0.1500E+01
LAETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
EAL  CHEMNAME = ETHYL ALCOHOL
      PATHCODE = A P Q R S
      MOLEWT = 46.07 NBP = 351.5 NFP = 159.0 CRITTEMP= 516.3 CRITPRES= 0.6380E+07
      DENSITY = 790.0 DENSTEMP= 293.2 SHPSTATE=L ARHC = 1038. BRHO = -0.8500
      CRHO = 0.0000E+00 LDUPFEND= 253.2 LDLEFEND= 273.2 LQVISPT= LQVISTMP=
      AVIS = BVIS = LVUPFEND= LVUPPND= LVLWRBND= LOTHRCND=
      LTHCNTMP= ACCN = BCCN = LTCUPBND= LTCLOBND=
      LOHTCPPT= 2428. LOHTCPTM= 293.2 AHC = -390.5 EHC = 9.630 LHCUPEND= 323.2
      LHCLOBND= 273.2 SURFTENS= SFTNTEMP= INTFTEMP=
      SOLUBPNT= SOLUBTMP= A = VPUPPND= 373.2 VPLWRBND= 273.2 AVCP = 0.2123E+05
      BVP = 1652. CVP = -42.16 DVCP = 0.1800E-04 VHCUPBND= 600.0 VHCLOBND= 250.0
      BVCP = 205.2 CVCP = -0.9630E-01 HTCOMSTN= -0.2690E+08 HTSOLUTN= -0.2303E+06
      HTFUSION= 0.1080E+06 LHTVAPOR= 0.8374E+06 HTDECOMP= UPFLMLIM= 19.00 BURNRATE= 0.6500E-04
      HTREACTN= HTPOLYMR= LOFLMLIM= 3.300 INHALTIME= 900.0 UPTOXLIN= 0.1500E-01
      TOXINHAL= 1000. INHALCNC= 5000. MOLRATIO= FLMETEMP=
      LATETOX = ABFLMTMP=
      MOLFRAC =

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M OF UNITS

CHEMNAME = ETHYLAMINE

CHEMNAME = ETHYLAMINE	PATHCODE = A B C K L M N					
MOLEWT = 45.10	NBP = 289.7	NFP = 192.0	CRITTEMP=	456.0	CRITPRES=	0.5700E+07
DENSITY = 687.0	OENSTEMP= 289.1	SHPSTATE=L	ARHO =	1033.	BROH =	-1.200
CRHO = 0.0000E+00	LOUPRNO= 553.1	LLOWPRNO= 253.1	LOVISPLT=	0.2500E-03	LOVISTMP=	288.1
AVIS = -11.17	BVIS = 829.0	LVDPRND= 333.1	LVLWRBD=	253.1	LQTRCND=	0.1628
LTHCNTMP= 288.1	ACON = 0.3651	BCCN = -0.6978E-03	LTCUPEND=	323.1	LTCLOBND=	253.1
LOHTCPPT= 2855.	LOHTCPTM= 288.1	AHC = 1526.	BHC =	4.605	LHCUPBND=	323.1
LHCLOBNO= 253.1	SURFTENS= 0.2050E-01	SFTNTEMP= 288.1	INTFTELS=		INTFTTMP=	
SOLUBPNT=	SOLUBTMP=	A =	B =		AVP =	17.13
BVP = 3514.	CVP = -0.1500	VPUPRSNO= 303.1	VPLWRBD=	243.1	AVCP =	0.3257E+05
BVCP = 157.4	CVCP = 0.0000E+00	OVCP = 0.0000E+00	VHCUPBBD=	600.0	VHCLOBNO=	250.0
HTFUSIGN=	LHTVAPOR= 0.6110E+06	HTCCWSTN= -0.3760E+08	HTDECOMP=		HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLWLIM= 3.500	UPFLMLIN=	14.00	BURNRATE=	0.8350E-04
TOXINF L= 10.00	INHLCNC= 25.00	INHALTIME= 1800.	LOTXLIM=	0.5000E-04	UPTOXLIM=	0.5000E-03
LATEFOX =	ABFLMTMP=	MOLRATIO= 0.7917	(E) AIRFUEL =	11.41	(E) FLMETEMP=	
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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EAS  CHEMNAME = ETHYLALUMINUM SESQUICHLORIDE      PATHCODE = A  0  Z
MOLEWT = 247.5      NBP = 477.0      NFP = 253.0      CRITTEMP=
DENSITY = 1092.      OENSTEMP= 298.1      SHPSTATE=L      ARHO = 1479.      CRITPRES=
CRHO = 0.0000E+00      LDUPREND= 363.1      LDWREND= 273.1      LQVISPT= 0.1850E-02      LQVISTMP= 298.1      BRHO = -1.300
AVIS = -11.73      BVIS = 1620.      LVUPRSND= 343.1      LVLWRBND= 283.1      LOTHRCNO= 0.1512      LQVISTMP= 298.1      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00      (E) LTCUPBND= 298.1      LTCLOBNO= 283.1      LQVISTMP= 298.1      (E)
LOHTCPPT= 1926.      (E) LOHTCPTM= 293.1      AHC = 698.6      (E) BHC = 4.187      (E) LHCUPBND= 303.1      LQVISTMP= 298.1      (E)
LHCLOBNO= 273.1      SURFTENS= 0.3200E-01      (E) SFTNTMP= 293.1      INTFTES= 293.1      INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 10.00
BVP = 2397.      CVP = -0.1500      VPUPRSND= 453.1      VPLWRBND= 323.1      AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCCWSTN= -0.2000E+08      (E) HTDECCW=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          LPFLYLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLNETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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EBR  CHEMNAME = ETHYL BUTYRATE      PATHCODE = A  T  U
MOLEWT = 116.2      NBP = 394.0      NFP = 180.0      CRITTEMP= 566.0      CRITPRES= 0.3100E+07
DENSITY = 879.0      OENSTEMP= 293.1      SHPSSTATE=L      ARHO = 1154.      BRHO = -1.000
CRHO = 0.0000E+00      LOUPRNO= 292.1      LDLWRBND= 273.1      LOVISRPT= 0.6670E-03      LOVISTNP= 293.1
AVIS = -11.17      BVIS = 1130.      LVUPRBN= 323.1      LVLWRBND= 283.1      LOTHRCNO= 0.1651
LTHCNTMP= 297.1      ACON = 0.1651      BCON = 0.0000E+00      LTCUEBND= 298.1      LTCLOBND= 283.1
LOHTCPPT= 1926.      LOHTCPTM= 293.1      AHC = 1926.      (E) BHC = 0.0000E+00(E)      LHCUPBND= 298.1
LHCL08ND= 283.1      SURFTENS= 0.2450E-01      SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
SOLU8PNT= 0.6800      SOLU8TMP= 298.1      A =      B =      AVP = 9.073
BVP = 1358.      CVP = -60.15      VPUPRBN= 435.1      VPLWRBND= 285.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUEBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3000E+06      HTCONSTN= -0.3060E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.7882E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN=      UPTOXLIN=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
EBT  CHEMNAME = ETHYL BUTANOL          PATHCODE = A   T   U
MOLEWT = 102.2      NBP      = 419.0      NFP      = 159.0      CRITTEMP=
DENSITY = 834.0      DENSTEMP= 293.2      SHPSTATE=L      CRHO      = 1127.      BRHO      = -1.0000
CRHO      = 0.0000E+00      LDUPREND= 303.2      (E) LVUPREND= 303.0      (E) LVUPREND= 303.0      (E) LOVISTMP= 293.0      (E)
AVIS      = -11.70      (E) BVIS      = 1320.      (E) BVIS      = 1320.      (E) BVIS      = 1320.      (E) BVIS      = 1320.      (E)
LTHCNTMP= 293.0      (E) ACON      = 0.1600      (E) ACON      = 0.1600      (E) ACON      = 0.1600      (E) ACON      = 0.1600      (E)
LOHTCPPT= 2260.      (E) LOHTCPTM= 293.0      (E) AHC      = 2260.      (E) AHC      = 2260.      (E) AHC      = 2260.      (E) AHC      = 2260.      (E)
LHCLOBND= 273.0      (E) SURFTENS= 0.2430E-01      SFTNTEMP= 298.2      INTFTENS= 0.4000E-01      INTFTEMP= 293.0      (E)
SOLUBPNT= 0.4300      SOLUBTMP= 293.2      A      =      B      =      AVP      = 11.71
BVP      = 2810.      CVP      = 0.4004E-01      VPUPREND= 423.2      VPLWRBND= 288.2      AVCP      =
BVCP      =      CVCP      =      DVCVP      =      VHCUPBND=
HTVFUSION=      LHTVAPOR= 0.4559E+06      HTCOMBNTN= -0.3870E+08      HTDECOMP=      HTSOLUTIN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.900      UPFLMLIM= 8.800      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEXP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ECA  CHEMNAME = ETHYL CHLOROACETATE
      MOLEWT = 122.6      NBP = 416.0      NFP = 247.0      CRITTEMP=
      DENSITY = 1150.      OENSTEMP= 293.1      SHPSIATE=L      ARHO = 2469.      BRHO = -4.500
      CRHO = 0.0000E+00      LOUPRNO= 303.1      LOLWRNO= 273.1      LOVISPR= 0.3200E-02(E) LOVISTMP= 293.1
      AVIS = -12.91      (E) BVIS = 2100.      (E) LVUPRNO= 298.1      LVLWRND= 283.1      LOTHRCNO= 0.1512      (E)
      LTHCNTPrP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPEND= 303.1      LTCLEND= 283.1
      LOHTCPPT= 1717.      (E) LOHTCPTW= 293.1      APC = 489.2      (E) BHC = 4.187      (E) LHCUPBNO= 313.1
      LHCLOBAD= 273.1      SURFTENS= 0.2600E-01(E) SFINTEMP= 293.1      INTFTENS= 0.2400E-01(E) INTFTTMP= 293.1
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.53
      BVP = 2300.      CVP = -0.1500      VPUPEND= 423.1      VPLWRBD= 308.1      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPEND=      VHCLOBND=
      HTFUSIGN=      LMTVAPOR= 0.3600E+06      HTCOVSTN= -0.1680E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIP=      UPFLMLIP=      BURNRATE= 0.3841E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN=      UPTOXLIM= 0.5000E-04(E)
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ECF CHEMNAME = ETHYL CHLOROFORMATE PATHCODE = A O X Y

MOLEWT = 108.5	NBP = 367.0	NFP = 192.0	CRITTEMP =	CRITPRES =
DENSITY = 1135.	OENSTEMP = 293.1	SHPSSTATE=L	APHO = 1633.	BRHO = -1.700
CRHO = 0.0000E+00	LOUPRNO = 313.1	LOLWRBND = 273.1	LQVISPT = 0.3200E-02(E)	LQVISTMP = 293.1
AVIS = -12.91 (E)	BVIS = 2100.	(E) LVUPRNO = 298.1	LVLWRBND = 278.1	LOTHRCNO = 0.1512 (E)
LTHCNTMP = 293.1	ACON = 0.1512	(E) BCON = 0.0000E+00(E)	LTCUPBND = 298.1	LTCLOBNO = 278.1
LQHTCPPT = 1758.	(E) LQHTCPTM = 293.1	AHC = 531.1 (E)	ERC = 4.187	(E) LHCUPBNO = 298.1
LHCLOBNO = 278.1	SURFTENS = 0.2750E-01	SFTNTMP = 288.1	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 13.94
BVP = 3280.	CVP = -0.1500	VPUPRND = 373.1	VPLWRBND = 283.1	AVCP = 0.2849E+05(E)
BVCP = 233.1 (E)	CVCP = -0.1191	(E) OVCP = 0.5543E-04(E)	VHCUPBND = 500.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3300E+06(E)	HTCON3TN = -0.1600E+08(E)	HTDECON =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE = 0.4342E-04
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ECH  CHEMNAME = ETHYLENE CHLOROHYDRIN      PATHCODE = A  P  O
MOLEWT = 80.51      NBP = 401.9      CRITTEMP=
DENSITY = 1197.      DENSTEMP= 293.1      SHPSSTATE=L      APMC = 1519.      CRITPRES=
CRHO = 0.0000E+00      LOUPRENO= 323.1      LDLWSEND= 273.1      LOVISPT= 0.3910E-02      LOVISTMP= 288.1
AVIS = -13.11      BVIS = 2180.      LVUPREND= 308.1      LVLWRBND= 283.1      LQTHRCND= 0.1512      (E
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00      (E) LTCUPBND= 293.1      LTCLOBND= 283.1
LQHTCPPT= 1926.      (E) LOHTCPTM= 293.1      AHC = 698.6      (E) BHC = 4.187      (E) LHCUPBND= 298.1
LHCLOBND= 278.1      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =      10.88
BVP = 2360.      CVP = -0.1500      VPUPREND= 403.1      VPLWRBND= 283.1      AVCP =
BVCP =      CVCP =      OVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LMTVAPOR= 0.5150E+06      HTCONYSTN= -0.1508E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLTLIM= 4.900      UPFLMLIM= 15.90      BURNRATE= 0.2839E-04
TOXINHAL= 5.000      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ECL  CHEMNAME = ETHYL CHLORIDE          PATHCODE = A  B  C  D  E  F  G
      MOLEWT = 64.52  NBP = 285.4  NFP = 137.0  CRITTEMP = 460.4  CRITPRES = 0.5227E+07
      DENSITY = 906.0  OENSTEMP = 285.4  SHPSTATE=L  ARHO = 1362.  BRHO = -1.600
      CRHO = 0.0000E+00  LOUPRENO = 333.2  LOLWREND = 285.4  LOVISPAT = 0.3000E+03  LQVISTMP = 285.4
      AVIS = -10.49  BVIS = 677.0  LVLPREND = 303.2  LVLWREND = 263.2  LQTHRCND =
      LTHCNTMP =  ACON =  LQHTCPTM = 293.2  AHC = -1204.  EHC = 10.05  LHCUPREND = 323.2
      LHCLOBND = 243.2  SURFTENS = 0.1950E-01  SFTNTMP = 293.2  INTFTENS = 0.4000E-01(E)  INTFTMP = 273.0 (E)
      SOLUBPNT = 0.6000  SOLUBTMP = 293.2  A =  VPLUPREND = 303.2  VPLASBND = 233.2  AVCP = 9127.
      BVP = 1375.  CVP = 0.4004E-01  DVCP = 0.0000E+00  HTCCSTN = -0.1884E+08  HTSOLUTN =
      BVCP = 204.3  CVCP = -0.8374E-01  LHTVAPOR = 0.3793E+06  LOFLPLIM = 3.600  UPFLPLIM = 12.00  BURNRATE = 0.6333E-04
      HTFUSION =  HTPOLYMR =  INHALCNC =  ABFLWTMP =
      TOXINHAL = 1000.  INHA_TME =  LOTCKLIM =  UPTOXLIM =
      LATETOX =  MOLRATIO = 0.8000 (E)  AIRFUEL = 6.383 (E)  FLMETEMP =
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ECS  CHEMNAME = ETHYLOCHLOROSILANE          PATHCODE = A  0

MOLEWT = 129.1      NBP = 347.0      NFP =
DENSITY = 1095.      DENSTEMP= 298.1      SHPS:ATE=L
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLW:END= 283.1      LOVISPT= 0.5700E-02(E) LOVISTMP= 293.1      (E) BRHO = 1393.      (E) BRHO = -1.000      (E)
AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPREND= 298.1      LVLR:END= 283.1      LQTHRCND= 0.1628      (E)
LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LOHTCPPT= 1926.      (E) LOHTCPTM= 293.1      AHC = 698.6      (E) BHC = 4.187      (E) LHCUPENO= 303.1
LHCLOBND= 283.1      SURFTENS= 0.3000E-01(E) SFTN:TEMP= 293.1      INTFTERS=
SOLUBPNT=          A =          VPUPREND= 353.1      VPLWRBND= 283.1      AVP = 9.752
BVP = 1648.      CVP = -0.1500      DVCP =
BVCP =          LHTVAPOR= 0.2600E+06(E) HTCC:STN= -0.1500E+08(E) HTDECON=
HTFUSION=          HTPOLYMR=          LOFL:LIN= 2.900      UPFL:LIN=
HTREACTN=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
TOXINHAL=          ABFLMTMP=          MOLRATIO=          AIRFUEL =
LAFETOX =          ABFLMTMP=          MOLRATIO=          FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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EDA  CHEMNAME = ETHYLENEDIAMINE          PATHCODE = A  P  Q
MOLECWT = 60.10      NBP = 390.0      CRITTEMP= 593.0      CRITPRES= 0.6400E+07
DENSITY = 909.0      DENSTEMP= 293.2      SHPS:ATE=L      ARHO = 1208.      BRHO = -1.020
CRHO = 0.0000E+00      LDUPREND= 373.2      LDLE-SND= 284.2      LOVISIMP=
AVIS =              BVIS =              LVUPESND=              LVLRBND=      LOTHRCND=
LTHCNTMP=              ACON =              LQHTCPTM= 293.2      SHC = 3.349      LTCLOBND=
LQHTCPPT= 2901.      SURFTENS=              SFTN'ENP=              INTFTTNP=      LHCUPBND= 393.2
LHCLOBND= 284.2      SOLUBPNT=              A =              B =              AVP = 9.251
BVP = 1350.      CVP = -72.16      VPUPRSND= 423.2      VPLWRBND= 288.2      AVCP = 0.3827E+05
BVCP = 238.6      CVCP = -0.4187E-01      DVCP = -0.3936E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=              LHTVAPOR= 0.6699E+06      HTCON'STN= -0.2860E+08      HTSOLUTN= -0.2000E+05(E
HTREACTN=              HTPOLYMR=              LOFLMLIM= 5.800      UPFLMLIM= 11.10      BURNRATE= 0.3667E-04
TOXINHAL= 10.00      INHALCNC= 20.00      INHALTME= 300.0      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =              ABFLMTMP=              MOLRATIO=              AIRFUEL =
MOLFRAC =

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HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/53/14 PAGE378

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ED8	CHEMNAME = ETHYLENE OIBROMIDE	PATHCODE = A X	
MOLEWT =	187.9	NBP =	404.0
DENSITY =	2180.	OENSTEMP =	293.2
CRHO =	0.0000E+00	LDUPRENO =	323.2
AVIS =	-10.63	8VIS =	1249.
LTHCNTMP =		ACON =	
LOHTCPT =	724.3	LOHTCPTN =	293.2
LHCLOBNO =	283.2	SURFTENS =	0.3875E-01
SOLUBNT =	0.2700	SOLUBTMP =	298.2
BVP =	1989.	CVP =	0.4004E-01
BVCP =	201.8	CVCP =	-0.8792E-01
HTFUSION =		LHTVAPOR =	0.1909E+06
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.3580	INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	283.0
		SHPSSTATE=L	
		LOLWBSND =	283.2
		LVUPBSND =	373.2
		BCON =	
		AHC =	601.6
		SFTNTEMP =	293.2
		A =	
		VPUPBSND =	423.2
		OVCP =	0.0000E+00
		HTCO3TN =	
		LOFLMLIM =	
		INHALTIME =	
		MOLRATIO =	
		CRITPRES =	
		BRHO =	-0.2000
		LQVISTMP =	293.2
		LQTHRCND =	
		LTCLOBNO =	
		LHCUPBND =	373.2
		INTFTTMP =	293.2
		AVP =	9.917
		AVCP =	0.3287E+05
		VHCLOBND =	250.0
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-03
		FLMETEMP =	
		CRITTEMP =	
		ARHO =	2277.
		LOVISPT =	0.1700E-02
		LVLWRBND =	283.2
		LTCUPBNO =	
		BHC =	0.4187
		INTFTENS =	0.3654E-01
		B =	
		VPLWRBND =	283.2
		VHCUPBND =	600.0
		HTOECOMP =	
		UPFLMLIN =	
		LOTOXLIM =	0.5000E-04
		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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EDC  CHEMNAME = ETHYLENE DICHLORIDE
      MOLEWT = 98.96      NBP = 356.7      NFP = 237.5      CRITTEMP= 561.0      CRITPRES= 0.5100E+07
      DENSITY = 1253.      OENSTEMP= 293.2      SHPS:ATE=L      ARHO = 1603.      BRHO = -0.9219
      CRHO = -0.9300E-03      LOUPRNO= 353.2      LOLWPRNO= 273.2      LOVISPT= 0.8600E-03      LOVISTMP= 293.2
      AVIS = -10.85      8VIS = 1110.      LVUPRNO= 353.2      LVLWRNO= 273.2      LQTHRCNO=
      LTHCNTMP=      ACON =      ECON =      LTCUPBND=      LTCLOBND=
      LOHTCPPT= 1256.      LOHTCPTM= 293.2      AHC = 680.8      BHC = 1.968      LHCUPBND= 353.2
      LHCLOBNO= 253.2      SURFTENS= 0.3220E-01      SFTNTEMP= 293.2      INTFTENS= 0.3000E-01(E)      INTFTTMP= 298.0 (E)
      SOLUBPAT= 0.8000      SOLUBTMP= 293.2      A =      B =      AVP = 10.25
      BVP = 1859.      CVP = 0.4004E-01      VPUPRNO= 313.2      VPLWRNO= 263.2      AVCP = 0.3433E+05
      BVCP = 169.6      CVCP = -0.6280E-01      OVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.3195E+06      HTCONSTN= -0.8000E+07(E)      HTDECCVP=      HTSOLUTN=
      HTRACTN=      HTPOLYMR=      LOFLW/LIM= 6.200      LPFLMLIM= 15.60      BURNRATE= 0.2500E-04(E)
      TOXINHAL= 5.000      INHALCNC=      INHALTIME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/53/19 PAGE380
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EOB	CHEMNAME = ENDRIN	PATHCODE = II	
MOLECWT =	380.9	NBP =	573.0
DENSITY =	1650.	OENSTMP =	298.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LHCNTP =		ACON =	
LOHTCPT =		LOHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBRT =	0.1600E-04	SOLUBTMP =	296.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.5900E-02	INHALCNC =	0.2900E-01
LAIFETOX =		ABFLMTMP =	
MOLFRAC =			
		LOFLMLIM =	1.100
		INHALTME =	1800.
		MOLRATIO =	
		HTCOGGIN =	
		LOFLMLIN =	7.000
		UPFLMLIN =	
		LOTOXLIN =	
		AIRFUEL =	
		HTSOLUTN =	
		BURNRATE =	0.6680E-04
		UPTOXLIM =	0.5000E-04(E
		FLMETEMP =	
		CRITPRES =	
		BRHO =	
		LQVISTMP =	
		LQTHRCND =	
		LTCLOBNO =	
		LHCUPBNO =	
		INTFTIMP =	
		AVP =	
		AVCP =	
		VHCLOBNO =	
		HTDECOMP =	

PATHCODE = 11

MOLECW T =	164.0	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	860.0	DENSTEMP=	293.2	SHPSATE=S	=	ARHO	=
CRHO	=	LDUPRND=		LDLWRND=		LOVISTMP=	
AVIS	=	BVIS	=	LVUPRND=		LOTHRND=	
LTHCNTWP=		ACON	=	BCON	=	LTCLOBND=	
LQHTCPPT=		LQHTCPTM=		AHC	=	LHCUPBND=	
LHCLOBND=		SURFTENS=		SFTNTEMP=		INTFTMP=	
SOLUBP,T=	0.5000	(E) SOLUBTMP=	298.2	A	=	AVP	=
BVP	=	CVP	=	VPUPRND=		AVCP	=
BVCP	=	CVCP	=	DVCP	=	VHCLOBND=	
HTFUSION=		LHTVAPOR=		HTCOWSTN=		HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=		BURNRATE=	
TOXINHAL=		INHALCNC=		INHALTME=		UPTOXLIM=	0.1500E-01
LATETOX	=	ABFLMTMP=		MOLRATIO=		FLMETEMP=	
MOLFRAC	=						

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE, (U)
DEC 76 E ATKINSON

F/G 7/2

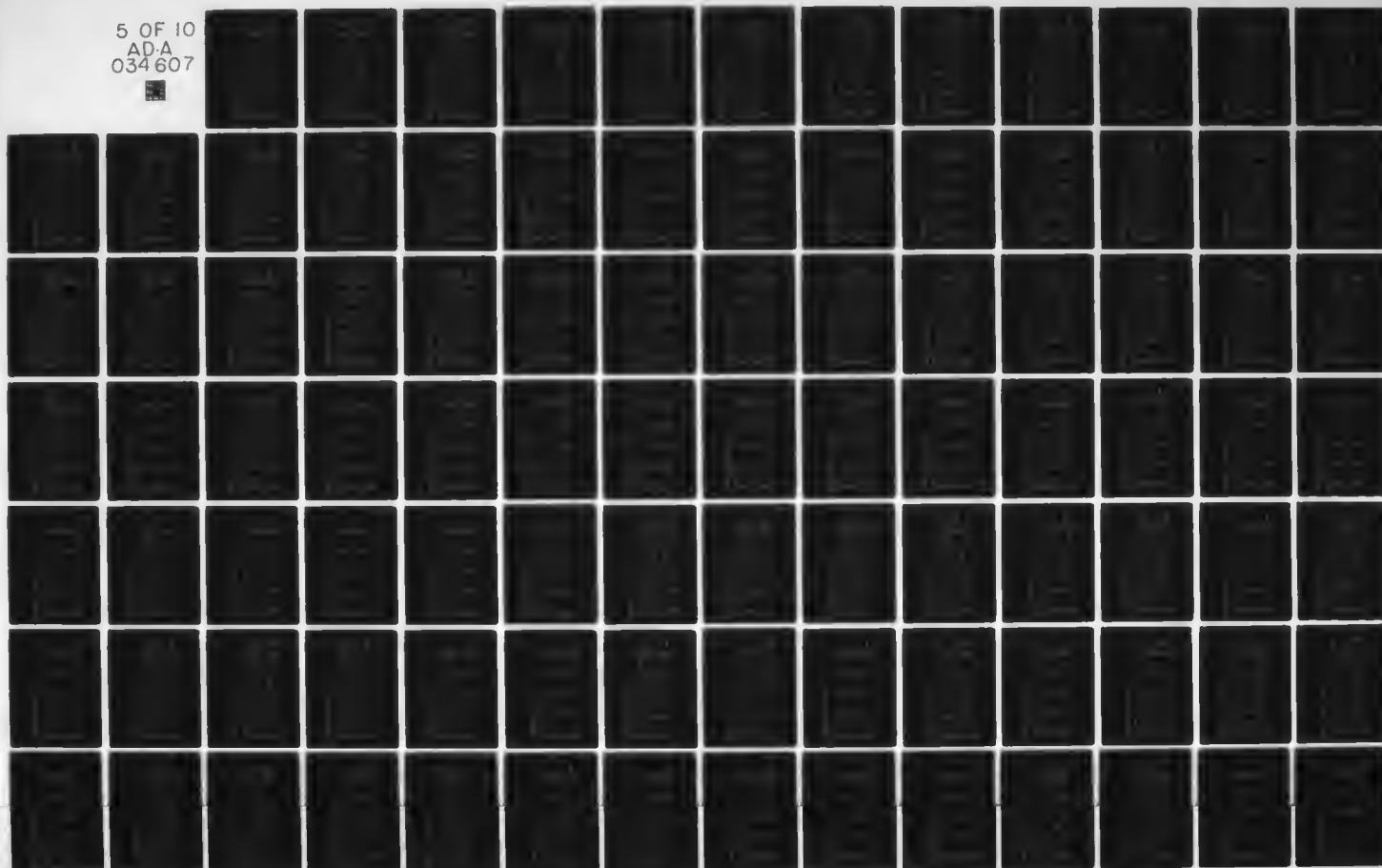
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

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5 OF 10
AD-A
034 607



PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
EEE  CHEMNAME = ETHYLENE GLYCOL DIETHYL ETHER      PATHCODE = A  P  Q  T  U
      MOLECWT = 118.2      NEP = 395.0      NFP = 199.0      CRITTEMP=
      DENSITY = 848.4      DENSTEMP= 293.1      SHPSSTATE=L      ZRHO = 1054.      CRITPRES=
      CRHO = 0.0000E+00      LDUPREND= 303.1      LDLWREND= 273.1      LQVISPR.T= 0.8200E-03(E) LOVISIMP= 293.1      BRHO = -0.7000
      AVIS = -11.61      BVIS = 1320.      LVUPREND= 298.1      LVLWREND= 283.1      LOTHRCND= 0.1512      (E)
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPEND= 303.1      LTCLOBND= 283.1
      LQHTCPPT= 1758.      (E) LQHTCPTM= 293.1      AHC = 531.1      (E) BMC = 4.187      (E) LHCUPEND= 303.1      LHCLOBND=
      LHCLOBND= 283.1      SURFTENS= 0.2600E-01(E) SFTNTMP= 293.1      INTFTENS= 293.1      INTFTTMP=
      SOLUBPNT= 2.700      SOLUBTMP= 293.1      A = 12.01      AVP = 12.01
      BVP = 2768.      CVP = -0.1500      VPUPREND= 398.1      VPLWREND= 373.1      AVCP = 0.3554E+05(E)
      BVCP = 536.4      (E) CVCP = -0.2338      (E) DVCP = 0.3014E-04(E) VHCUPEND= 500.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.4480E+06      HTCOMSTN= -0.3400E+08(E) HTDECCWF=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIN=      BURNRATE= 0.6847E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PATHCODE = A P Q R S

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EFM  CHEMNAME = ETHYL FORMATE
      MOLEWT = 74.10      NBP = 327.4      PATHCODE = A P Q R S
      OENSITY = 922.0      OENSTEMP= 293.1      SHPSTATE=L      CRITTEMP= 508.0      CRITPRES= 0.4730E+07
      CRHO = 0.0000E+00      LOUFRNO= 313.1      LOLWRBND= 253.1      LOVISPNT= 0.4000E-03      LOVISTMP= 293.1      BRHO = -1.400
      AVIS = -11.02      BVIS = 933.0      LVUPRNO= 373.1      LVLWRBND= 253.1      LQTHRCNO= 0.1512
      LTHCNTMP= 293.1      ACON = 0.3240      BCON = -0.5815E-03      LTCUPBND= 333.1      LTCLOBNO= 273.1
      LOHTCPPT= 1918.      LOHTCPTM= 293.1      AHC = 1304.      BHC = 2.093      LHCUPBNO= 373.1
      LHCLOBNO= 253.1      SURFTENS= 0.2400E-01      SFTNTEMP= 293.1      INTFTENS= 0.2800E-01(E)      INTFTTMP= 293.1
      SOLUBPNT= 9.100      SOLUSTMP= 295.1      A =      B =      AVP = 10.03
      BVP = 1646.      CVP = -0.1500      VPUPRNO= 333.1      VPLWRBND= 253.1      AVCP = 0.4036E+05
      BVCP = 170.4      CVCP = 0.0000E+00      OVCP = 0.0000E+00      VHCUPEND= 600.0      VHCLOBNO= 250.0
      HTFUSION=      LHTVAPOR= 0.4100E+06      HTCOMSTN= -0.2200E+08      HTDECMP=      HTSOLUTN= -0.1200E+06
      HTREACTN=      HTPOLYMR=      LOFLVLIM= 2.800      UPFLVLIM= 16.00      BURNRATE= 0.6012E-04
      TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S₁ SYSTEM OF UNITS

```

EGA  CHEMNAME = ETHYLENE GLYCOL MONOETHYL ETHER ACETATE  PATHCODE = A  P  O

MOLEWT = 132.2  NBP = 429.0  NFP = 211.5  CRITTEMP= 607.0  CRITPRES= 0.3000E+07
DENSITY = 974.0  DENSTEMP= 293.2  SHPS:ATE=L  ARHO = 1285.  BRHO = -1.060
CRHO = 0.0000E+00  LDUPRND= 373.2  LDLPBND= 273.2  LQVISRNT=  LQVISTMP=
AVIS = 8VIS =  LVUPRND=  LVLWRBND=  LOTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
LQHTCPPT= 2068.  LQHTCPTM= 293.2  AHC = 840.9  BHC = 4.187  LHCUPBND= 313.2
LHCLOBND= 263.2  SURFTENS=  SFTNTMP=  INTFTENS=  INTFTIMP=
SOLUBPNT= 23.00  SOLUBTMP= 298.2  A =  B =  AVP = 9.265
BVP = 1492.  CVP = -79.16  VPUPRND= 423.2  VPLWRBND= 288.2  AVCP = 0.3341E+05
BVCP = 494.0  CVCP = -0.1758  DVCP = -0.7955E-05  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.3098E+06  HTCCNSTN= -0.2500E+08(E)  HTDECCMP=  HTSOLUIN=
HTREACTN=  HTPOLYMR=  LOFLWLIM= 1.700  UPFLWLIM= 6.700  BURNRATE=
TOXINHAL= 100.0  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTCXLIM= 0.5000E-02
LAFETOX =  ABFLNTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

EGD  CHEMNAME = ETHYLENE GLYCOL DIMETHYL ETHER      PATHCODE = A  P  O  R  S
      MOLEWT = 90.12  NBP = 358.4  NFP = 204.0  CRITTEMP= 536.0  CRITPRES= 0.3870E+07
      DENSITY = 868.0  OENSTEMP= 293.2  SHPSSTATE=L  ARHO = 1193.  BRHO = -1.110
      CRHO = 0.0000E+00  LOUPREND= 353.2  LDLPREND= 273.2  LOVISINT=  LOVISTMP=
      AVIS =  BVIS =  LVUPREND=  LVLRBND=  LOTHRCND=
      LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
      LOHTCPT= 1918.  LOHTCPTM= 293.2  AHC = 690.2  BHC = 4.187  LHCUPBND= 303.2
      LHCLOBND= 263.2  SURFTENS=  SFTNTMP=  INTFTENS=  INTFTTMP=
      SOLUBNT=  SOLUBTMP=  A =  B =  AVP = 10.11
      BVP = 1838.  CVP = 0.4004E-01  VPUPREND= 333.2  VPLWRBND= 253.2  AVCP = 0.3224E+05
      BVCP = 356.7  CVCP = -0.1336  OVCP = 0.8374E-05  VHCUPBND= 600.0  VHCLOBND= 250.0
      HTFUSION= 0.1394E+06  LHTVAPOR= 0.3123E+06  HTCON:STN= -0.2797E+08  HTSOLUTN= -0.2000E+05(E
      HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE= 0.8167E-04
      TOXINHAL=  INHALCNC=  INHALTME=  LOTCXLIN= 0.5000E-02  UPTOXLIM= 0.1500E-01
      LATETOX =  ABFLNTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
EGE  CHEMNAME = ETHYLENE GLYCOL MONOETHYL ETHER      PATHCODE = A  P  Q
      MOLECW = 90.12  NBP = 408.3  NFP =  CRITTEMP=  CRITPRES=
      DENSITY = 931.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1216.  BRHO = -0.9700
      CRHO = 0.0000E+00  LDUPRND= 373.2  LDWRSND= 273.2  LQVISPT=  LQVISTMP=
      AVIS =  BVIS =  LVUPRND=  LVLWRSND=  LOTHRCND=
      LTHCNTMP=  ACON =  LTCUPBND=  LTCLOBND=
      LQHTCPPT= 2428.  LQHTCPTM= 293.2  AHC = 1201.  BHC = 4.187  LHCUPBND= 313.2
      LHCLOBND= 273.2  SURFTENS=  SFTNTMP=  INTFTENS=  INTFTTMP=
      SOLUBTMP=  A =  B =  AVP = 9.277
      BVP = 1408.  CVP = -79.16  VPUPRND= 423.2  VPLWRSND= 288.2  AVCP = 0.4668E+05
      BVCP = 352.1  CVCP = -0.1507  DVCP = 0.1926E-04  VHCUPBND= 600.0  VHCLOBND= 250.0
      HTFUSION=  LHTVAPOR= 0.4438E+06  HTCONSTN= -0.3100E+08(E)  HTDECOMP=  HTSOLUTN= -0.2000E+05(E)
      HTREACTN=  LHTPOLYMR=  LOFLWLIM= 1.800  UPFLWLIM= 14.00  BURNRATE=
      TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
      LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
      MOLFRAC =

```

PATHCODE = A P O

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EGM  CHEMNAME = ETHYLENE GLYCOL MONOBUTYL ETHER      PATHCODE = A  P  O
MOLEWT = 118.2      NBP = 444.4      NFP = 198.0      CRITTEMP= 641.0      CRITPRES= 0.3200E+07
DENSITY = 902.0      OENSTEMP= 293.2      SHPSIATE=L      ARHO = 1169.      BRHO = -0.9100
CRHO = 0.0000E+00      LOUPREND= 373.2      LDLWEND= 273.2      LQVISPT=      LOVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LOTHRCND=      LTCLOBND=
LTHCNTMP=      ACON =      BCON =      AHC = 74D.4      BHC = 4.187      LHCUPBND= 303.2
LQHTCPT= 1968.      LQHTCPTM= 293.2      SFTNTEMP=      INTFTERS=      INTFTTMP=
LHCLOBND= 263.2      SURFTENS=      A =      B =      AVP = 11.02
SOLUBPNT=      SOLUBTMP=      VPUPRND= 453.2      VPLWRBND= 288.2      AVCP = 0.4999E+05
BVP = 2674.      CVP = 0.4004E-01      DVCP = 0.4103E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
BVCP = 531.7      CVCP = -0.2512      HTCONSTN= -0.3160E+08(E)      HTSOLUTN= -0.2000E+05(E)
HTFUSION=      LHTVAPOR= 0.3647E+06      LOFLMLIM= 1.100      UPFLMLIM=      BURNRATE=
HTREACTN=      HTPOLYMR=      INHALTIME=      LOTCXLM= 0.5000E-03      UPTOXLIM= 0.5000E-02
TOXINHAL= 50.00      INHALCNC=      ABFLMTMP=      AIRFUEL =      FLMETEMP=
LATETOX =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

EGY  CHEMNAME = ETHYLENE GLYCOL DIACETATE      PATHCODE = A  P  O
MOLECW = 146.1  NBP = 464.1  NFP = 231.7  CRITTEMP=
DENSITY = 1104.  DENTEMP= 293.1  SHPSSTATE=L  ARHO = 1426.  CRITPRES=
CRHO = 0.0000E+00  LDUPRBD= 323.1  LOLPBN= 273.1  LOVISPT= 0.2900E-02  LQVISTMP= 293.1  BRHO = -1.100
AVIS = -13.01  (E) BVIS = 2100.  (E) LVUPRBD= 303.1  LVLWRBD= 273.1  LQTHRCND= 0.1512  (E)
LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E) LTCUPRBD= 298.1  LTCLOBND= 278.1
LQHTCPPT= 2010.  (E) LOHTCPTM= 293.1  AHC = 782.3  (E) BHC = 4.187  (E) LHCUPBNO= 303.1
LHCLOBNO= 283.1  SURFTENS= 0.2000E-01(E) SFTNTMP= 293.1  INTFTENS=  INTFTTMP=
SOLUBPNT= 16.40  SOLUBTMP= 293.1  A =  B =  AVP = 10.84
BVP = 2709.  CVP = 0.1500  VPUPRBD= 463.1  VPLWRBD= 343.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPCR= 0.3100E+06  HTCONSTN= -0.2500E+08(E) HTOECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 1.600  UPFLMLIM= 8.400  BURNRATE= 0.4843E-04
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

EHA	CHEMNAME = ETHYLHEXALDEHYDE				PATHCODE = A T U			
	MOLECW = 128.2	NBP = 437.0	NFP =	CRITTEMP =	CRITPRES =			
	DENSITY = 820.0	DENSTEMP = 293.1	SHPSSTATE=L	ARHO =	BRHO =	(E)	-1.000 (E)	
	CRHO = 0.0000E+00(E)	LOUPRNO = 303.1	LOLWRND =	283.1	LOVISTMP =			
	AVIS =	BVIS =	LVUPRND =		LQTHRCNO =			
	LTHCNTMP =	ACON =	BCON =		LTCLOBND =			
	LQHTCPTM =	LQHTCPTM =	AHC =		LHCUPBNO =			
	LHCLOBNO =	SURTEMP =	SFTNTEMP =		INTFTTMP =			
	SOLUBPNT =	SOLUBTMP =	A =		AVP =		10.25	
	BVP = 2294.	CVP = -0.1500	VPUPRND =	438.1	AVCP =			
	BVCP =	CVCP =	OVCP =		VHCLOBNO =			
	HTFUSION =	LHTVAPOR =	HTCOMBTN =	-0.4100E+08	HTSOLUTN =			
	HTREACTN =	HTPOLYMR =	LOFLMLIM =		BURNRATE =			
	TOXINHAL =	INHALCNC =	INHALTME =		UPTOX LIM =	0.5000E-03	0.5000E-02	
	LAFETOX =	ABFLNTMP =	MOLRATIO =		FLMETEMP =			
	MOLFRAC =							

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ELT  CHEMNAME = ETHYL LACTATE          PATHCODE = A  P  O

MOLECWT = 118.1      NBP      = 427.0      NFP      =      CRITPRES=
DENSITY = 1030.      OENSTMP= 293.1      SHPSSTATE=L      ARHO      =      BRHO      = -1.100
CRHO      = 0.0000E+00      LDUPRBN0= 343.1      LOLWPN0= 273.1      LOVISPTI= 0.5700E-02(E) LOVISTMP= 293.1
AVIS      = -18.81      (E) BVIS      = 4000.      (E) LVUPRBN0= 298.1      LVLRARB'D= 283.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON      = 0.1512      (E) BCON      = 0.0000E+00(E) LTCUPBN0= 295.1      LTCLOBNO= 283.1
LOHTCPPT= 1884.      (E) LOHTCPTM= 293.1      AHC      = 656.7      (E) BHC      =      INTFTTMP=
LHCLOBNO= 283.1      SURFTENS= 0.2920E-01      SFTNTMP= 293.1      INTFTERS=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.995      (E)
BVP      = 2130.      (E) CVP      = -0.1500      (E) VPUPRBN0= 433.1      VPLAPBN'D= 403.1      AVCP      =
BVCP      =      CVCP      =      OVCP      =      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN= -0.2700E+08(E) HTOECONP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLTLIM= 1.500      LPFLMLIN= 11.40      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTVE=      LOTCXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      A:RFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EMA  CHEMNAME = ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE  PATHCODE = A  P  Q  T  U
MOLECWT = 160.2  NBP = 465.4  NFP = 209.7  CRITTEMP=
DENSITY = 942.0  DENSITY = 293.1  SHPSTATE=L  ARHO = 1235.  CRITPRES=
CRHO = 0.0000E+00  LDUREND= 303.1  LDUREND= 273.1  LQVISPNT= 0.1800E-02  LQVISTMP= 293.1
AVIS = -11.78  (E) BVIS = 1600.  (E) LVUPRND= 303.1  LVLWRB:D= 283.1  LQTHRCND= 0.1512  (E)
LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E)  LTCUPB:D= 303.1  LTCLOBNO= 283.1
LQHTCPPT= 1884.  (E) LQHTCPTM= 293.1  AHC = 656.7  (E) BHC = 4.187  (E) LHCUPBND= 303.1
LHCLOBND= 283.1  SURFTENS= 0.2600E-01(E)  SFTNTMP= 293.1  INTFTTMS=
SOLUBPNT= 1.760  SOLUBTMP= 293.1  A = -3.517  B = 0.1800E-01  AVP = 11.66
BVP = 3100.  CVP = -0.1500  VPUPRND= 473.1  VPLWRB:D= 353.1  AVCP =
BVCP =  CVCP =  OVCP =  VHCUPB:D=
HTFUSION=  LHTVAPOR= 0.2700E+06  HTCOYBTN= -0.3200E+08(E)  HTDECOMP=
HTREACTN=  HTPOLYMR=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLM= 0.5000E-03  UPTOXLM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

EMC  CHEMNAME = ETHYL MERCAPTAN      PATHCODE = A  P  O  T  U  V  W
MOLEWT = 62.10  NBP = 307.6  NFP = 126.0  CRITTEMP= 499.0  CRITPRES= 0.5500E+07
DENSITY = 826.0  OENSTEMP= 293.1  SHPSIATE=L  BRHO = 1178.  BRHO = -1.200
CRHO = 0.0000E+00  LOUPREND= 373.1  LDLWREND= 253.1  LOVISPT= 0.2200E-03  LQVISTMP= 293.1
AVIS = -10.15  BVIS = 510.0  LVLPBEND= 313.1  LVLABB.D= 233.1  LOTHRCNO= 0.1326
LTHCNTMP= 293.1  ACCN = 0.2999  BCON = -0.5699E-03  LTCUPB.D= 323.1  LTCLOBNO= 263.1
LOHTCPPT= 1901.  LOHTCPTM= 293.1  AHC = 1433.  EHC = 1.591  LHCUPBNO= 373.1
LHCLOBNO= 253.1  SURFTENS= 0.2350E-01  SFTNTMP= 293.1  INTFTENS= 0.2500E-01(E)  INTFTMP= 293.1
SOLUBPNT= 1.500  SOLUBTMP= 293.1  A = 9  B = 9.755
BVP = 1461.  CVP = -0.1500  VPLWFB.D= 263.1  AVCP = 0.3352E+05
BVCP = 134.4  CVCP = 0.0000E+00  OVCP = 0.0000E+00  VHCUPB.D= 600.0  VHCLOBNO= 250.0
HTFUSION=  LHTVAPOR= 0.4390E+06  HTCOMSTN= -0.3500E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 2.800  BURNRATE= 0.9519E-04
TOXINHAL= 0.5000  INHALCNC=  INHALTME=  LOTCXLM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY F

CHEUNG

CHEUNG

CHEUNG

MOLE CWT =

DENSITY =

CRHO 11

AVIS

LTHCNTMP=

LOHTCPPT=

LHCLOBND=

SOLUBILITY = 1.43 g/100 ml

BVP "

BVCB "

ENTSO 41H

NICOTINE

- 79444 -

INDEX

2000

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/53/76 PAGE399

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ENB  CHEMNAME = ETHYLIENENORBORNENE          PATHCODE = A  T  U
      MOLEWT = 120.2  NBP = 420.8              NFP = 193.0  CRITPR=
      DENSITY = 896.0  OENSTMP= 293.1          SHPSTATE=L  ARHO = 1189.
      CRHO = 0.0000E+00  LDUPRND= 303.1        LDWRSD= 283.1  LQVISPT=
      AVIS =          BVIS =                  LVUPRND=      LVLWRSD=
      LTHCNTMP= 293.1  ACON = 0.1512  (E) BCCN = 0.0000E+00(E) LTCUPBND= 303.1
      LQHTCPPT=      LOHTCPTM=                AHC =      BHC =
      LHCLOBNO=      SURFTENS=                SFTNTMP=    INTFTMP=
      SOLUBPNT= 0.1000E-01  SOLUBTMP= 293.1    A =      B =
      BVP = 2178.    CVP = -0.1500            VPUPRND= 423.1  VPLWRSD= 283.1
      BVCP =        CVCP =                   OVCP =      VHCUPBND=
      HTFUSION=      LHTVAPOR=                HTCONSTN= -0.437DE+08
      HTREACTN=      HTPOLYWR=                LOFLMLIM=
      TOXINHAL=      INHALCNC=                INHALTME=
      LATETOX =      ABFLMTMP=                MOLRATIO=
      MOLFRAC =
      CRITPRES=
      BRHO = 1.000
      LOVISTMP=
      LOTHRCND= 0.1512  (E)
      LTCLOBND= 283.1
      LHCUPBNO=
      INTFTTMP=
      AVP = 10.18
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.5000E-04(E)
      FLMETEMP=
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S SYSTEM OF UNITS

ENP	CHEMNAME = ETHOXYLATED NONYLPHENOL	PATHCODE = A P	
MOLEWT =	500.0 (E) NBP =	NFP =	CRITPRES =
DENSITY =	1030. (E) DENSTEMP = 298.1	SHPSTATE=L	BRHO =
CRHO =	LOUPRBND=	LOLWRBND=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LOHTCPPT=	LOHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCO::STN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLV'LIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EOD CHEMNAME = ETHOXYLATED DODECANOL

PATHCODE = A P Q

MOLECW = 500.0	NBP =	289.0	CRITTEMP =	CRITPRES =
DENSITY = 1020.	OENSTEMP = 293.2	SHPSATE=L	CRHO =	BRHO = -1.0000
CRHO = 0.0000E+00	LDUPRBN = 303.2	LDLWRBN = 289.2	LOVISPA.T =	LOVISMP =
AVIS =	BVIS =	LVUPRBN =	LVLWRBN =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBN =	LTCLOBN =
LOHTCPPT = 2000.	(E) LOHTCPTM = 293.0	(E) AHC = 2000.	(E) BHC =	LHCUPBN = 303.0 (E
LHCLOBN = 293.0	(E) SURFTENS =	SFTNTMP =	INTFTENS =	INTFTMP =
SOLUBPNT = 10.00	SOLUBTMP = 293.2	A =	B =	AVP =
BVP =	CVP =	VPUPRBN =	VPLWRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPS.D =	VHCLOBN =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.2600E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.1500E-01
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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EOP   CHEMNAME = ETHOXYLATED PENTADECANOL      PATHCODE = A P O
      MOLEWT = 660.0      NBP =      DENSTMP = 288.2      CRITPRES=
      DENSITY = 1007.      CRITTEMP=      ARHO = 1293.      BRHO = -1 0000
      CRHO = 0.0000E+00      LDUPRND= 303.2      LDVISPT=      LQVISTMP=
      AVIS =      LVUPRND=      LQTHRCND=
      LTHCNTMP=      ACON =      LTCUPBND=      LTCLOEND=
      LHCTCPPT= 2000.      (E) LHCTCPTM= 293.0      (E) BHC = 0.0000E+00(E) LHCUPEND= 303.0      (E
      LHCLOEND= 293.0      (E) SURFTENS=      SFTNTMP=      INTFTENS=      INTFTIMP=
      SOLUBPNT= 10.00      (E) SOLUBTMP= 293.2      A =      B =      AVP =
      BVP =      CVP =      VPUPRND=      VPLWRND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLDBND=
      HTFUSION=      LHTVAPOR=      HTCO:GIN= -0.2600E+08(E) HTDECOMP=      HTSOLUTN= -0.2000E+05(E
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTWE=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTNP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S SYSTEM OF UNITS

EOT CHEMNAME = ETHOXYLATED TETRADECANOL PATHCODE = A P Q
 MOLEWT = 660.0 NBP = 288.0 CRITTEMP = CRITPRES =
 DENSITY = 1007. OENSTEMP = 288.2 SHPSTATE=L ARHO = 1293. BRHO = -1.0000
 CRHO = 0.0000E+00 LOUPRENO = 303.2 LOLWREND = 288.2 LOVISPT = LQVISTMP =
 AVIS = BVIS = LVUPRENO = LVLWREND = LQTHRCND =
 LTHCNTMP = ACON = BCON = LTCUFEND = LTCLOBND =
 LQHTCPPT = 2000. (E) LQHTCPTM = 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBNO = 303.0 (E
 LHCLOBND = 293.0 (E) SURFTENS = SFINTEMP = INTFTENS = INTFTTMP =
 SOLUBPNT = 10.00 (E) SOLUBTMP = 293.2 A = B = AVP =
 BVCP = CVP = VPUPRSNO = VPLWREND = AVCP =
 BVCP = CVCP = VHCUPBND = VHCLOBNO =
 HTFUSION = LHTVAPOR = HTCOMSTN = -0.2600E+08(E) HTDECOMP = HTSOLUTN = -0.2000E+05(E
 HTREACTN = HTPOLYMR = LOFLMLIM = UPFLMLIM = BURNRATE =
 TOXINHAL = INHALCNC = INHALTME = LOTOXLIM = UPTOXLIM =
 LATETOX = ABFLMTMP = MOLRATIO = AIRFUEL =
 MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
EOX  CHEMNAME = ETHYLENE OXIDE
      MOLEWT = 44.05      NBP = 283.8      NFP = 160.6      CRITTEMP= 469.0      CRITPRES= 0.7200E+07
      DENSITY = 869.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1243.      BRHO = -1.186
      CRHO = -0.3000E-03      LOUPREND= 293.2      LDLWRSND= 223.2      LCVISPRNT=      LOVISTMP=
      AVIS =      BVIS =      LVUPPSND=      LVLWREND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPPT= 1972.      LQHTCPTM= 283.2      AHC = 1489.      BHC =      LHCUPBND= 303.2
      LHCLOBND= 213.2      SURFTENS= 0.2430E-01      SFTNTMP= 293.2      INTFTIENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.797
      BVP = 1359.      CVP = 0.4004E-01      VPUPRND= 313.2      VPLWRND= 233.2      AVCP = -293.1
      BVCP = 179.8      CVCP = -0.5652E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION= 0.1172E+06      LHTVAPOR= 0.5799E+06      HTCOMSTN= -0.2671E+08      HTDECOMP=      HTSOLUTN= -0.1424E+06
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 3.000      UPFLMLIM= 100.0      BURNRATE= 0.5633E-04
      TOXINHAL= 50.00      INHALCNC= 200.0      INHALTME= 1800.      JTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO= 0.8750      (E) AIRFUEL = 7.790      (E) FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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EPA  CHEMNAME = 2-ETHYL-3-PROPYLACROLEIN      PATHCOOE = A  T  U
MOLEWT = 126.2      NBP = 448.0      CRITTEMP=
DENSITY = 857.0      OENSTEMP= 288.2      SHPSIATE=L      ARHO = 598.B      BRHO = -1.000
CRHO = 0.0000E+00      LDUPR8ND= 303.2      LDLWR8ND= 273.2      LOVISPT= 0.1280E-02      LOVISTMP= 293.2
AVIS =      BVIS =      LVUPR8ND=      LVLWR8ND=      LOTHRCND= 0.1600      (E
LTHCNTMP= 293.0      (E) ACON = 0.1600      (E) BCON = 0.0000E+00(E)      LTCUPR8ND= 313.0      (E) LTCLOBNO= 283.0      (E
LQHTCPPT= 2200.      (E) LQHTCP/M= 298.0      (E) AHC = 2200      (E) SHC = 0.0000E+00(E)      LHCUP8ND= 313.0      (E
LHCL8BND= 283.0      (E) SURFTENS= 0.2820E-01      SFTNTEMP= 293.2      INTFTENS= 0.4000E-01(E)      INTFTTMP= 293.0      (E
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.30      (E
BVP = 2370.      (E) CVP = 0.0000E+00(E)      VPUPR8ND= 450.0      (E) VPLWR8ND= 300.0      (E) AVCP = 0.1600E+06(E
BVCP = 0.0000E+00(E)      CVCP = 0.0000E+00(E)      OVCP = 0.0000E+00(E)      VHCUP8ND= 400.0      (E) VHCLOBND= 300.0      (E
HTFUSION=      LHTVAPOR=      HTCOM8TN= -0.3800E+08(E)      HTDECCNP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTCXLM= 0.5000E-03      UPTOXLM= 0.5000E-02
LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
EPC  CHEMNAME = EPICHLOROHYDRIIN  PATHCODE = A P O
MOLEWT = 92.53  NBP = 388.4  NFP = 215.1  CRITTEMP =  CRITPRES =
DENSITY = 1180.  OENSTEMP = 293.2  SHPSSTATE=L  ARHO = 1526.  BRHO = -1.113
CRHO = -0.2500E-03  LOUPRNO = 388.2  LDLWPSNO = 273.2  LOVISPT = 0.1030E-02  LOVISTMP = 298.2
AVIS = -11.41  BVIS = 1353.  LVUPRNO = 313.3  LVLRBND = 273.2  LOTHRCNO = 0.7211E-01
LTHCNTMP = 293.2  ACON = 0.3801E-01  BCON = 0.1163E-03  LTCUPBND = 373.2  LTCLOBND = 253.2
LOHTCPPT = 1415.  LOHTCPTM = 293.2  AHC = 310.5  BHC = 3.768  LHCUPBND = 333.2
LHCLOBND = 263.2  SURFTENS = 0.3700E-01  SFINTEMP = 293.2  INTFTENS =  INTFTTMP =
SOLUBPNT = 6.000  SOLUBTMP = 298.2  A =  B = 10.68  AVP =  AVCP = -0.2901E+05
BVP = 2184.  CVP = 0.4004E-01  VPUPRNO = 373.2  VPLWRBND = 263.2  VHCLOBND = 250.0
BVCP = 386.9  CVCP = -0.2470  OVCP = -0.5024E-04  VHCUPBND = 600.0  HTSOLUTN =
HTFUSION =  LHTVAPOR = 0.4099E+06  HTCONSTN = -0.1894E+08  HTOECOMP =  BURNRATE = 0.4333E-04
HTREACTN =  HTPOLYMR =  LOFLMLIM = 3.800  UPFLMLIM = 21.00  UPTOXLIM = 0.5000E-03
TOXINHAL = 5.000  INHALCNC = 10.00  INHALTME = 1800.  LOTOXLIM = 0.5000E-04  FLMETEMP =
LATETOX =  A8FLHTMP =  MOLRATIO =  AIRFUEL =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
EPD  CHEMNAME = ETHYL PHOSPHONOTHIOIC DICHLORIDE, ANHYD-   PATHCODE = A  O
      MOLECWT = 163.0      NBP = 445.0      NFP = 223.0      (E) CRITTEMP=
      DENSITY = 1350.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 4282.      BRHO = -10.00
      CRHO = 0.0000E+00      LDUPREND= 303.1      LDWR3ND= 283.1      LQVISPT= 0.5700E-02(E) LQVISTMP= 293.1
      AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPR3ND= 298.1      LVLWRB'D= 283.1      LQTHRCND= 0.1628      (E)
      LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E) LTCUPB'D= 298.1      LTCLOBND= 283.1
      LQHTCPPT= 2093.      (E) LQHTCPTM= 293.1      AHC = 2093.      (E) BHC = 0.0000E+00(E) LHCLP5ND= 298.1
      LHCL0BND= 283.1      SURFTENS= 0.2800E-01(E) SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.36
      BVP = 3222.      CVP = 60.85      VPUPR3ND= 353.1      VPLWRB'D= 283.1      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPB'D=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.1300E+08(E) HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLW'LIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EPP CHEMNAME = ETHYL PHOSPHORODICHLORIDE PATHCODE = A 0

MOLEWT = 162.9	NBP = 440.0	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 1350.	DENSTEMP = 292.1	SHPSTATE=L	ARHO =	(E) BRHO =	-1.000 (E)
CRHO = 0.0000E+00(E)	LDUPRBND = 303.1	LDLWRND = 283.1	LQVISPNT =	0.5700E-02(E)	LQVISTMP = 293.1
AVIS = -1B.81	(E) BVIS = 4000.	(E) LVUPRND = 298.1	LVLWRBND =	283.1	LQTHRCNO = 0.1628 (E)
LTHCNTMP = 293.1	ACON = 0.162B	(E) BCON = 0.0000E+00(E)	LTCUPBND =	298.1	LTCLOBND = 283.1
LQHTCPPT = 2093.	(E) LQHTCPTM = 293.1	AHC = 2093.	(E) BHC =	0.0000E+00(E)	LHCUPBND = 298.1
LHCLOBNO = 283.1	SURFTENS = 0.250DE-01(E)	SFTNTEMP = 293.1	INTFTENS =	INTFTTMP =	
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	10.23 (E)
BVP = 2300.	(E) CVP = -0.1500	(E) VPUPRND = 453.1	VPLWRBND =	413.1	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR =	HTCOMPSTN = -0.1100E+08(E)	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	
LATETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

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*****
EPS      CHEMNAME = ETHYL PHENYLDICHLOROSILANE      PATHCODE = A   O
MOLEWT = 205.1      NBP      = 422.0      (E) NFP      =
DENSITY = 1159.      DENSTEMP= 288.1      SHPSTATE=L
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLPBND= 283.1
AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPREND= 298.1
LTHCNTMP= 293.1      ACON = 0.1396      (E) BCON = 0.0000E+00(E) LTCUPBND=
LQHTCPPT= 1675.      (E) LOHTCPTM= 293.1      AHC = 1675.      (E) EHC =
LHCLOBND= 288.1      SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.1      INTFTENS=
SOLUBPAT=          SOLUBTMP=          A =          E =
BVP = 2561.      CVP = -0.1500      VPUPREND= 473.1      VPLWRBND=
BVCP =          CVCP =          OVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR= 0.2400E+06      HTCOMSTN= -0.2300E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTWE=          LOTOXLIM=
LATETOX =          ABFLCMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =
CRITPRES=          (E) BRHO = 1447.      (E) BRHO = -1.000      (E)
LOVISTMP= 293.1      LOVISPNT= 0.5700E-02(E) LOVISTMP= 293.1
LOTHRCND= 0.1396      (E)
LTCLOBND= 283.1      LTCLOBND= 298.1      LTCLOBND= 283.1
LHCUPBND= 303.1      INTFTIMP=
AVP = 10.12      AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE= 0.6179E-04
UPTOXLIM= 0.5000E-03
FLMETEMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ESC  CHEMNAME = ETHYL SILICATE
      MOLEWT = 208.3      NBP = 442.D      NFP = 187.7      CRITTEMP=
      OENSITY = 933.0      OENSTEMP= 293.1      SHPSTATE=L      ARHO = 1226.      CRITPRES=
      CRHO = 0.000DE+00      LDUPREND= 343.1      LDLPREND= 273.1      LOVISPNT= 0.700DE-03      LOVISTMP= 293.1      BRHO = -1.000
      AVIS = -10.81      8VIS = 1040.      LVUPREND= 343.1      LVLWRBND= 283.1      LQTHRCND= 0.1512      LQTHRCND= 0.1512      (E
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.000DE+00(E)      LTCUPBND= 298.1      LTCLOBND= 283.1      LTCLOBND= 283.1
      LOHTCPPT= 1800.      LOHTCPTM= 293.1      AHC = 1800.      BHC = 0.000DE+00      LHCUPBND= 313.1      LHCUPBND= 313.1
      LHCL08ND= 283.1      SURFTENS= 0.2280E-01      SFTNTEMP= 293.1      INTFTENS= 10.08      INTFTIMP=
      SOLU8PNT=          A =          B =          AVP = 10.08      AVP =
      8VP = 2242.      CVP = -0.1500      VPUPRNO= 443.1      VPLWRBND= 283.1      AVCP =
      8VCP =          CVCP =          DVCP =          VHCUPBND=
      HTFUSION=          LHTVAPOR= 0.220DE+06      HTCO/3TN= -0.280DE+08(E)      HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLM/LIM= 1.300      UPFLMLIM= 23.00      BURNRATE= 0.7348E-04
      TOXINHAL= 100.0      INHALCNC= 200.0      INHALTME= 1800.      LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ETA CHEMNAME = ETHYL ACETATE PATHCODE = A P Q

MOLEWT = 88.11	NBP = 350.0	NFP = 190.0	CRITTEMP = 523.0	CRITPRES = 0.3800E+07
DENSITY = 902.0	DENSTEMP = 293.2	SHPSTATE=L	ARHO = 1104.	BRHO = -0.1074
CRHO = -0.2000E-02	LOUPRBNO = 313.2	LOLWRBND = 273.2	LOVISPAT = 0.4400E-03	LOVISIMP = 294.2
AVIS = -11.17	BVIS = 1014.	LVUPRBND = 343.2	LVLWRBND = 273.2	LOTHRCNO = 0.1465
LTHCNTMP = 293.2	ACON = 0.2350	BCCN = -0.3024E-03	LTCUPBND = 333.2	LTCLOBND = 273.2
LQHTCPPT = 1934.	LQHTCPTM = 293.2	AHC = 1198.	BHC = 2.512	LHCUPENO = 333.2
LHCLOBND = 263.2	SURFTENS = 0.2400E-01	SFTNTMP = 293.2	INTFTENS = 0.4000E-01(E)	INTFTIMP = 293.0 (E
SOLUBPNT = 8.700	SOLUBTMP = 293.2	A = 10.36	AVP = 10.36	
BVP = 1873.	CVP = 0.4004E-01	VPUPRBND = 353.2	AVCP = 0.5024E+05	
BVCP = 196.4	CVCP = 0.5443E-01	DVCP = 0.0000E+00	VHCLOBND = 250.0	
HTFUSION =	LHTVAPOR = 0.3668E+06	HTCONSTN = -0.2351E+08	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM = 2.200	BURNRATE = 0.6167E-04	
TOXINHAL = 400.0	INHALCNC = 1000.	INHALTME = 900.0	UPTOXLIM = 0.5000E-02	
LAFETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =	
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ETB  CHEMNAME = ETHYLBENZENE
      MOLEWT = 106.2      NEP = 409.4      NFP = 178.0      CRITTEMP= 617.1      CRITPRES= 0.3606E+07
      DENSITY = 867.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1131.      BRHO = -0.9000
      CRHO = 0.0000E+00      LOUPRENO= 373.2      LDLWRBND= 273.2      LQVISPT= 0.6780E-03      LQVISTMP= 293.2
      AVIS = -10.98      BVIS = 1080.      LVUPRBN= 373.2      LVLWRBND= 273.2      LQTHRCND= 0.1337
      LTHCNTMP= 293.2      ACON = 0.2222      ECON = -0.3024E-03      LTCUPBND= 373.2      LTCLOBND= 273.2
      LQHTCPPT= 1712.      LQHTCPTM= 293.2      AHC = 1172.      EHC = 1.842      LHCUPBND= 373.2
      LHCLBN= 273.2      SURFTENS= 0.2920E-01      SFTNTMP= 293.2      INTFTENS= 0.3548E-01      INTFTIMP= 293.2
      SOLUBPNT= 0.2000E-01      SOLUBTMP= 293.2      A = 9.082      AVP = 9.082
      BVP = 1424.      CVP = -59.96      VPUPRBN= 473.2      VPLWRBND= 293.2      AVCP = -0.2290E+05
      BVCP = 581.1      CVCP = -0.2470      OVCP = 0.0000E+00      VPCLWRBND= 600.0      VHCLOBND= 25.00
      HTFUSION=      LHTVAPOR= 0.3354E+06      HTCOMBNTN= -0.4135E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.000      UPFLMLIM= 6.700      BURNRATE= 0.9667E-04
      TOXINHAL= 100.0      INHALCNC= 200.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
      MOLFRAC =
*****

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ETC  CHEMNAME = ETHYLENE CYANOHYDRIN  PATHCODE = A P Q
MOLEWT = 71.08  NBP = 502.9  CRITTEMP= 702.3  CRITPRES= 0.4900E+07
DENSITY = 1047.  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1323.  BRHO = -0.9400
CRHO = 0.0000E+00  LOUPRNO= 373.2  LLOWRNO= 273.2  LQVISPT=  LQVISTMP=
AVIS = 8VIS =  LVUPRNO=  LVLRBND=  LQTHRCNO=
LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
LQHTCPPT= 2400.  (E) LQHTCPTM= 298.0  (E) AHC = 2400.  (E) BHC = 0.0000E+00(E) LHCUPBND= 323.0  (E)
LHCLOBND= 283.0  (E) SURFTENS=  SFNTEMP=  INTFTENS=  INTFTIMP=
SOLUBPNT=  SOLUBTMP=  A = 8  AVP = 10.97  (E)
BVP = 3000.  (E) CVP = 0.0000E+00(E) VPUPRNO= 500.0  (E) VPLWRBND= 300.0  (E) AVCP =
BVCP =  CVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR=  HTQM8TN= -0.2340E+08(E) HTDECOMP=  HTSOLUTN=
HTREACTN=  LHPOLYMR=  LOFLMLIM= 2.300  UPFLMLIM= 12.10  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTCXLM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  A8FLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ETD  CHENAME = ETHOXYLATED TRIDECANOL      PATHCODE = A  P  Q
MOLEWT = 464.0      NBP =      CRITTEMP=      CRITPRES=
DENSITY = 1000.      DENSTEMP= 288.2      ARHO = 1293.      BRHO = -1.0000
CRHO = 0.0000E+00      LDUPREND= 303.2      LDWRBND= 288.2      LQVISINT=      LQVISTMP=
AVIS =      BVIS =      LVUPBND=      LVLWRBND=      LQTHRCND=
LHCNTNTP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPPT= 2000.      (E) LOHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC =      LHCUPBND= 303.0      (E
LHCLOBND= 293.0      (E) SURFTENS=      SFTNTMP=      INTFTENS=      INTFTIMP=
SOLUBPNT= 10.00      (E) SOLUBTMP= 293.2      A =      B =      AVP =
BVP =      CVP =      VPUPREND=      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCO::STN= -0.2600E+08(E)      HTDECCMP=      HTSOLU**N= -0.2000E+05(E
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOX LIM=      UPTOX LIM=      0.5000E-03      0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ETG  CHEMNAME = ETHOXY TRIGLYCOL          PATHCODE = A  P  O
MOLECWT = 178.0      NBP      = 529.0      NFP      = 254.5      CRITTEMP=
DENSITY = 1020.      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1313.
CRHO      = 0.0000E+00      LDUPREND= 303.2      LDLWREND= 273.2      LQVISPT=
AVIS      =          BVIS      =          LVUPRSND=          LVLWRBND=
LTHCNTMP=          ACON      =          BCON      =          LTCUPBND=
LQHTCPPT=          LQHTCPTM=          AHC      =          BHC      =
LHCLOBNO=          SURFTENS=          SFTNTEMP=          INTFTENS=
SOLUBPNT=          SOLUBTMP=          A      =          B      =
BVP      = 1836.      CVP      = -109.2      VPUPRSND= 573.2      VPLWRBND=
BVCP      = 0.0000E+00(E)      CVCP      = 0.0000E+00(E)      DVCP      = 0.0000E+00(E)      VHCUPBND=
HTFUSION=          LHTVAPOR= 0.2900E+06(E)      HTCOVSTN= -0.2580E+08(E)      HTDECOP=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIN=
LAFETOX  =          ABFLMTMP=          MOLRATIO=          AIRFUEL  =
MOLFRAC  =
CRITPRES=
BRHO      = -1.0000
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP      = 9.378
AVCP      = 0.1670E+06(E)
VHCLOBND= 300.C (E)
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP= 0.1500E-01

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ETH CHEMNAME = ETHANE

PATHCODE = A B C D E F G

MOLEWT = 30.07	NBP = 184.6	NFP = 89.90	CRITTEMP = 305.5	CRITPRES = 0.4879E+07
DENSITY = 546.0	DENSTEMP = 184.6	SHPSRATE=L	ARHO = 784.1	BRHO = -1.300
CRHO = 0.0000E+00	LDUPRENQ = 253.2	LDLWREND = 173.2	LOVISFNT = 0.1700E-03	LOVISTMP = 185.2
AVIS = -11.73	8VIS = 564.0	LVUPREND = 253.2	LVLWREND = 183.2	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPREND =	LTCLOBND =
LOHTCPPT = 2470.	LOHTCPTM = 193.2	AHC = 2066.	BHC = 2.093	LHCUPEND = 203.2
LHCLOBND = 93.16	SURFTENS = 0.1600E-01	SFTNTMP = 185.2	INTFTENS = 0.4500E-01(E)	INTFTTMP = 185.0 (E)
SOLUBNT =	SOLUBTMP =	A =	B =	AVP = 9.336
8VP = 800.0	CVP = 0.4004E-01	VPUPREND = 223.2	VPLWREND = 163.2	AVCP = 0.1884E+05
8VCP = 112.6	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPEND = 200.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.4899E+06	HTCONSTN = -0.4720E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 2.900	UPFLMLIM = 13.00	BURNRATE = 0.1217E-03
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLM =	UPTOXLM =
LARETOX =	ABFLWTMP = 2394.	(E) MOLRATIO = 0.9000	(E) AIRFUEL = 15.98	(E) FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ETI  CHEMNAME = ETHYLENEIMINE
      MOLEWT = 43.07      NBP = 329.0      NFP = 195.0      CRITTEMP=
      DENSITY = 832.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1096.      CRITPRES=
      CRHO = 0.0000E+00      LOUPRBND= 373.2      LOLWRBND= 253.2      LOVISPNT=      BRHO = -0.9000
      AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LOTHRCOND=      LOVISTMP=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=      LOTHRCND=
      LQHTCPT= 2479.      LQHTCPTM= 293.2      AHC = 1128.      BHC = 4.605      LHCUPBND= 373.2
      LHCLOBND= 263.2      SURFTENS= 0.3450E 01      SFTNTMP= 293.2      INTFTEMP=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.257
      BVP = 1134.      CVP = -63.16      VPUPRBND= 373.2      VPLWRBND= 243.2      AVCP = -0.1269E+05
      BVCP = 250.8      CVCP = -0.1068      OVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.7746E+06      HTCOWB3TN= -0.3705E+08      HTDECOKP=      HTSOLUTN= -0.6000E+05(E
      HTREACTN=      HTPOLYMR= -0.2000E+07(E)      LOFLW LIM= 3.300      UPFLM LIM= 54.80      BURNRATE=
      TOXINHAL=      INHALCNC= 5.000      INHALTME= 1800.      LOTCX LIM= 0.5000E-04(E)      UPTOX LIM=
      LATETOX =      ABFLM TMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PATHCODE = A B C D E F G

[illegible]

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/54/35 PAGE419

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SYM	CHEMNAME = ETHYL METHACRYLATE	PATHCODE = A T U Z					
MOLEWT =	114.0	NBP =	390.0	NFP =	223.0	(E) CRITEND =	CRITPRES =
DENSITY =	918.0	DENSTEMP =	288.7	SHPSSTATE=L		APHC =	(E) BRHO = -1.000 (E)
CRHO =	0.0000E+00(E)	LOUPRENO =	298.1	LOLWRSND =	278.1	LOVISPRNT =	LOVISTMP = 298.1
AVIS =	-11.41 (E)	BVIS =	1300.	(E) LVUPRSND =	303.1	LVLWRBND =	LQTHRCNO = 0.1512 (E)
LTHCNTMP =	293.1	ACON =	0.1512 (E)	8CON =	0.0000E+00(E)	LTCUPBND =	LTCLOBNO = 283.1
LQHTCPPT =	1884.	LQHTCPTM =	293.1	AHC =	1884.	BHC =	LHCUPEND = 303.1
LHCLOBND =	288.1	SURFTENS =		SFTNTEMP =		INTFTENS =	INTFTTMP =
SOLUBPNT =		SOLUBTMP =		A =		B =	AVP = 10.15
BVP =	2008.	CVP =	-0.1500	VPUPRSND =	393.1	VPLWRBND =	AVCP = 0.1645E+05
BVCP =	476.6	CVCP =	-0.2101	OVCP =	0.1256E+04	VHCUPBND =	VHCLOBNO = 250.0
HTFUSION =		LHTVAPOR =	0.3100E+06(E)	HTCOMSTN =	-0.2940E+08	HTOECOMP =	HTSOLUTN =
HTREACTN =		HTPOLYMR =	-0.5060E+06	LOFLMLIM =	1.800	UPFLMLIM =	BURNRATE = 0.7615E-04
TOXINHAL =		INHALCNC =		INHALTME =		LOTOXLIM =	UPTOXLIM = 0.1500E-01
LATETOX =		ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN: SI SYSTEM OF UNITS

ETN	CHENNAME = ETHYL NITRITE	PATHCODE = A B C D E F G						
	MOLECW = 75.10	NBP =	290.0	NFP =	223.0	CRITTEMP=	CRITPRES=	
	DENSITY = 900.0	DENSTEMP=	298.1	SHPSIATE=L		APHO =	8RHO = -1.000	
	CRHO = 0.0000E+00	LDUPRBND=	298.1	LDLWRBND=	273.1	LOVISPNT=	LOVISIMP= 293.1	
	AVIS = -12.91 (E)	8VIS =	2100. (E)	LVUPRBND=	298.1	LVLWRBND=	LQTHRCND= 0.1628 (E)	
	LTHCNTMP= 288.1	ACON =	0.1628	(E) SCON =	0.0000E+00(E)	LTCUPBND=	LTCLOBND= 283.1	
	LQHTCPPT= 2093. (E)	LQHTCPTM=	283.1	AHC =	907.9 (E)	BHC =	LHCUPBNO= 298.1	
	LHLCLOBND= 283.1	SURFTENS=	0.3000E-01(E)	SFTNTMP=	293.1	INTFTENS=	INTFTIMP= 293.1	
	SOLUBPNT=	SOLUBTMP=	A =	B =		AVP =	12.17	
	8VP = 2080. (E)	CVP =	-0.1500	VPUPRBND=	293.1	VPLWRBND=	AVCP =	
	8VCP =	CVCP =		DVCP =		VHCUPBND=	VHCLOBND=	
	HTFUSION=	LHTVAPOR=	0.5320E+06	HTCONSTN=	-0.1800E+08(E)	HTDECOMP=	HTSOLUTN=	
	HTREACTN=	HTPOLYMR=		LOFLMLIM=	3.000	UPFLMLIM=	8URNRATE= 0.4342E-04	
	TOXINHAL=	INHALCNC=		INHALTME=		LOTOXLM=	UPTOXLM=	
	LATETOX =	ABFLWTMP=		MOLRATIO=	0.6500 (E)	AIRFUEL =	4.113 (E)	
	MOLFRAC =						FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ETS  CHEMNAME = ETHYLTRICHLOROSILANE  PATHCODE = A  0

MOLEWT = 163.5  NSP = 372.0  NFP =
DENSITY = 1240.  OENSTEMP = 298.1  SHPSSTATE=L
CRHO = 0.0000E+00(E) LOUPRBNQ = 313.1  LOLWBNQ = 273.1  LQVISPT = 1533.  (E) BRHO = -1.000  (E)
AVIS = -12.91  (E) BVIS = 2100.  (E) LVUPRBNQ = 298.1  LVLKRBND = 283.1  LQTHRCND = 0.1279  (E)
LTHCNTMP = 293.1  ACON = 0.1279  (E) BCON = 0.0000E+00(E) LTCUPBNQ = 298.1  LTCLOBND = 278.1
LOHTCPPT = 1675.  (E) LOHTCPTM = 293.1  AHC = 1675.  (E) SHC = 0.0000E+00(E) LHCUPBNQ = 298.1
LHCLOBND = 278.1  SURFTENS = 0.2500E-01(E) SFTNTMP = 293.1  INTFTENS =
SOLUBPNT =  SOLUBTMP =  A =  B =  AVP = 10.56
BVP = 2066.  CVP = -0.1500  VPUPRBNQ = 378.1  VPLWRBNQ = 293.1  AVCP =
BVCP =  CVCP =  VHCUPBNQ =  VHCLOBND =
HTFUSIGN =  LHTVAPOR = 0.2400E+06  HTCONSTN = -0.1000E+08(E) HTOECONP =  HTSOLUTN =
HTREACTN =  HTPOLYMR =  LOFLMLIM =  UPFLMLIM =  BURNRATE = 0.3340E-04
TOXINHAL =  INHALCNC =  INHALTME =  LOTCX LIM = 0.5000E-03  UPTOX LIM = 0.5000E-02
LATETOX =  ABFLMTMP =  MOLRATIO =  FLMETEMP =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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EVO  CHEMNAME = EPOXIOIZED VEGETABLE OILS          PATHCODE = A  T  U
MOLEWT =      NBP =      CRITPRES=
DENSITY = 1000.  OENSTEMP= 293.2  SHPSTATE=L      ARHO = 1293.  BRHO = -1.0000
CRHO = 0.0000E+00  LDUPRNO= 303.2  LDLWPSND= 273.2  LOVISPNT= 0.5180  LOVISTMP= 293.2
AVIS =      BVIS =      LVUPRSD=      LVLWRSD=      LOTHRCND= 0.1600  (E
LTHCNTMP= 293.0  (E) ACON = 0.1600  (E) BCON = 0.0000E+00(E)  LTCUPBND= 303.0  (E) LTCLOBND= 283.0  (E
LQHTCPPT= 2000.  (E) LOHTCPTM= 293.0  (E) AHC = 2000.  (E) BHC = 0.0000E+00(E)  LHCUPBND= 303.0  (E
LHCLOBND= 278.0  (E) SURFTENS= 0.2000E-01(E)  SFTNTMP= 293.0  (E) INTFTENS= 0.4000E-01(E)  INTFTTMP= 293.0  (E
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VPUPRSD=      VPLWRSD=      AVCP =
BVCP =      CVCP =      OVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.3000E+0B(E)  HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.1500E-01(E)  UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FAC CHEMNAME = FERRIC AMMONIUM CITRATE PATHCODE = SS

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1800.	DENSTEMP= 293.1	SHPSIATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWPSND=	LOVISPAT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=	LHCLOBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTEMP=	INTFTEMP=
SOLUBPNT= 25.00	SOLUBTMP= 298.1	A =	B =	AVP =
BVP =	CVP =	VPUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLU7N=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FAL CHEMNAME = FURFURYL ALCOHOL

PATHCODE = A P O

MOLEWT = 98.10	NBP = 443.0	NFP = 258.0	CRITTEMP =	CRITPRES =	
DENSITY = 1130.	OENSTEMP = 293.1	SHPSATE=L	ARHO = 1423.	BRHO = -1.000	
CRHO = 0.0000E+00	LOUPRNO = 303.1	LOLWPRNO = 273.1	LQVISPT = 0.4550E-02	LQVISTMP = 298.1	
AVIS = -18.81	8VIS = 4000.	LVUPRNO = 313.1	LVLWRBD = 273.1	LQTHRCNO = 0.1744	
LTHCNTMP = 303.1	ACON = 0.1744 (E)	8CON = 0.0000E+00(E)	LTCUPBD = 303.1	LTCLOBNO = 273.1	
LOHTCPPT = 2093.	LOHTCPTM = 298.1	AHC = 595.4	EHC = 5.024	LHCUPEND = 308.1	
LHCLOBNO = 273.1	SURFTENS = 0.3800E-01	SFTNTMP = 293.1	INTFTENS =	INTFTIMP =	
SOLUSPNT =	SOLUBTMP =	A =	B =	AVP = 11.30	
BVP = 2792.	CVP = -0.1500	VPUPRNO = 443.1	VPLWRBD = 298.1	AVCP =	
CVCP =	CVCP =	OVCP =	VHCUPBD =	VHCLOBND =	
HTFUSION =	LHTVAPOR = 0.5400E+06	HTCOMSTN = -0.2600E+08	HTOECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.800	UPFLMLIM = 16.30	BURNRATE = 0.3841E-04	
TOXINHAL = 5.000	INHLCNC = 50.00	INHLMIME = 1800.	LOTCLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03	
LATEETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

FAO	CHEMNAME = FERRIC AMMONIUM OXALATE	PATHCODE = SS			
	MOLECWt = 428.0	NBP =	NFP =	CRITPRES=	
	DENSITY = 1780.	DENSTEMP= 293.1	SHPSTATE=S	BRHO =	
	CRHO =	LDUPREND=	LDLWRSD=	LQVISTMP=	
	AVIS =	BVIS =	LVUPREND=	LQTHRCND=	
	LTHCNTMP=	ACON =	BCON =	LTCLOBND=	
	LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPEND=	
	LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTTMP=	
	SOLUBPNT= 100.0	SOLUBTMP= 298.1	A =	AVP =	
	BVP =	CVP =	VPUPRSND=	AVCP =	
	BVCP =	CVCP =	DVCP =	VHCLOBND=	
	HTFUSION=	LHTVAPOR=	HTCOVSTN=	HTSOLUTN=	
	HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=	
	TOXINHAL= 0.5200E-01	INHALCNC=	INHALTME=	UPTOXLIM=	
	LAETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=	
	MOLFRAC =				

MOLECW T =	392.2	NBP	=	NBP	=	CRITTEMP=	CRITPRES=
DENSITY =	1860.	DENSTEMP=	293.1	SHPSTATE=S	ARHO	=	BRHO
CRHO	=	LDUPREND=		LDLWRSND=	LOVISPNT=		LOVISTMP=
AVIS	=	BVIS	=	LVUPREND=	VLWRSND=		LQTHRCND=
LTHCNTMP=		ACON	=	BCON	=	LTCUPBND=	LTCLOBND=
LQHTCPPT=		LOHTCPTM=		AHC	=	BHC	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTEMP=	INTFTENS=		INTFTTMP=
SOLUBPNT=	26.40	SOLUBTMP=	293.1	A	=	-178.7	AVP
BVP	=	CVP	=	VUPRPSND=	VPLWRSND=		AVCP
BVCP	=	CVCP	=	DVCP	=	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMSTN=	HTDECCMP=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIN=		BURNRATE=
TOXINHAL=	0.5700E-01	INHALCNC=		INHALTME=	LOTOXLIM=	0.5000E-03	UPTOXLIM=
LAETOX	=	ABFLMTMP=		MOLRATIO=	AIRFUEL	=	FLMETEMP=
MOLFRAC	=						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FCL CHEMNAME = FERRIC CHLORIDE PATHCODE = SS

MOLEWT = 162.2	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2800.	DENSTEMP = 293.1	SHFSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRENO =	LDLWRBND =	LOVISPAI =	LOVISIMP =
AVIS =	BVIS =	LVUPRBNB =	LVLWRBND =	LQTHRCNO =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBNO =
LOHTCPPT =	LOHTCPTM =	AHC =	LHCUPBNO =	LHCUPBNO =
LHCLOBNO =	SURFTENS =	SFTNTTEMP =	INTFTEMP =	INTFTIMP =
SOLUBPNT = 74.40	SOLUBTMP = 273.1	A =	B = 1.080	AVP =
BVP =	CVP =	VPUPPSNO =	VPLWRBND =	AVCP =
BVCP =	CVCP =	OVCP =	VHCUPPSO =	VHCLOBNO =
HTFUSIGN =	LHTVAPOR =	HTCOMSTN =	HTOECOP =	HTSOLUTN = -0.8400E+06
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.1380	INHALCNC =	INHALTME =	LCTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

FCP  CHEMNAME = FERRIC GLYCEROPHOSPHATE          PATHCODE = SS
MOLEWT = 470.0 (E) NSP =          NFP =          CRATTMP=
DENSITY = 1500.  DENSTENP= 293.1  SHPSIATE=S      ARHO  =
CRHO  =          LDUPREND=          LDLWREND=      LOVISIMP=
AVIS  =          BVIS  =          LVUPREND=      LOTHRCND=
LTHCNTMP=          ACON  =          BCON  =      LTCLOBND=
LOHTCPPT=          LOHTCPTM=          AHC  =      LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTIEMP=    INTFTIMP=
SOLUBPNT= 50.00  SOLUBTMP= 293.1  A  =          AVP  =
BVP  =          CVP  =          VPLWRBND=      AVCP  =
BVCP  =          CVCP  =          CVCP  =      VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCONSP=    HTSOLUTN=
HTREACTN=          HTPOLYMR=          LCFLMLIM=    BURNRATE=
TOXINHAL= 0.4800E-01(E) INHALCNC=          INHALTIME=  UPTOXLIM=
LATETOX =          ABFLMIMP=          MOLRATIO=    FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FEC  CHEMNAME = FERROUS CHLORIDE          PATHCODE = SS
MOLEWT = 198.0      NBP =          SHPSTATE=S
DENSITY = 1930.      DENSTEMP= 293.1
CRHO =              LDUPRND=
AVIS =              BVIS =          LVUPRND=
LTHCNTMP=          ACON =          BCON =
LOHTCPPT=          LOHTCPTM=        AHC =
LHCLOBND=          SURFTENS=        SFTINTMP=
SOLUBPNT= 62.60     SOLUBTMP= 293.1  A = -127.8
BVP =              CVP =            VPUPRND=
BVCP =             CVCP =            DVCP =
HTFUSION=          LHTVAPOR=        HTCONSTN=
HTREACTN=          HTPOLYMR=        LOFLMLIM=
TOXINHAL= 0.1130    INHALCNC=        INHALTME=
LATETOX =          ABFLMTMP=        MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 0.65D0
AVCP =
VHCLOBND=
HTSOLUTN= -0.420DE+05
BURNRATE=
UPTOXLIM= 0.500DE-02
FLMETEMP=

```


HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/54/54 PAGE431

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FFB CHEMNAME = FERROUS FLUOROBORATE PATHCODE = A P

MOLEWT = 229.5	NBP =	NFP =	CRITPRES =
DENSITY = 1100.	(E) OENSTEMP = 293.1	SHSTATE=L	BRHO =
CRHO =	LOUPRNO =	LOLREND =	LOVISTMP =
AVIS =	BVIS =	LVUPRND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VPUPRNO =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSTON =	LHTVAPOR =	HTCOMSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL = 0.9800E-01	INHALCNC =	INHALTME =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FMA  CHEMNAME = FORMIC ACIO  PATHCODE = A P O
MOLECWT = 46.03  NBP = 374.0  NFP = 281.6  CRITTEMP=
DENSITY = 1220.  OENSTEMP= 293.2  SHPSSTATE=L  ARHO = 1568.  CRITPRES=
CRHO = 0.0000E+00  LOUPRNO= 313.2  LOLWRNO= 273.2  LOVISPT=  LOVISTMP=
AVIS =  BVIS =  LVUPRNO=  LVLWRNO=  LOTHRNO=
LTHCNTMP=  ACON =  LTCUPBND=  LTCLOBND=
LOHTCPPT= 2135.  LOHTCPTM= 293.2  AHC = 1276.  SHC = 2.931  LHCUPBNO= 413.2
LHCLOBNO= 293.2  SURFTENS= 0.3800E 01  SFTNTMP= 288.2  INTFTENS=  INTFTTMP=
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 10.07
BVP = 1890.  CVP = 0.4004E-01  VPUPRND= 373.2  VPLWRNO= 273.2  AVCP = 0.1411E+05
BVCP = 119.3  CVCP = -0.5024E-01  DVCP = 0.0000E+00  VHCUPBNO= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.5024E+06  HTCOMSTN= -0.4756E+07  HTSOLUTN= -0.6000E+05(E
HTREACTN=  HTPOLYMR=  LOFLMLIM= 18.00  UPFLMLIM= 57.00  BURNRATE= 0.8333E-05
TOXINHAL= 5.000  INHALCNC=  INHALTIME=  LOTOXLIM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FMS CHEMNAME = FORMALDEHYDE SOLUTION

PATHCODE = A P Q

MOLEWT =	NBP =	NFP =	CRITTEVP =	CRITPRES =
DENSITY = 1100.	OENSTEMP = 298.2	SHPSATE=L	ARHO = 1337.	BRHO = -0.5000
CRHO = 0.000DE+00	LDUPREND = 313.2	LDLWRSND = 273.2	LQVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPEND =	LTCLOBND =
LQHTCPPT = 3349.	LOHTCPTM = 298.2	AHC = 2122.	BHC = 4.187	LHCUPENO = 313.2
LHCLOBND = 273.2	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	S =	AVP = 11.69
BVP = 2768.	CVP = 0.4004E-01	VPUPREND = 373.2	VPLWRBND = 293.2	AVCP =
BVCP =	CVCP =	OVCN =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECONP =	HTSOLUTN = -0.2000E+05(E
HTREACTN =	HTPOLYMR =	LOFLMLIM = 7.000	UPFLMLIM = 73.00	BURNRATE =
TOXINHAL = 2.000	INHALCNC = 5.000	INHALTME = 300.0	LOTOXLIN = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PATHCODE = SS

MOLECWt =	404.0	NBP	=	NFP	=	320.0	CRITTEMP=	CRITPRES=
DENSITY =	1700.	DENSTEMP=	293.1	SHPSTATE=S			ARHO =	BRHO =
CRHO =		LDUPREND=		LDLWPSND=			LQVISPNT=	LOVISTMP=
AVIS =		BVIS =		LVUPRSND=			LVLWRBND=	LOTHRCOND=
LTHCNTMP=		ACON =		BCON =			LTCUPBND=	LTCLOBND=
LOHTCPPT=		LOHTCPTM=		AHC =			BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTEMP=			INTFTENS=	INTFTTMP=
SOLUBPNT=	82.50	SOLUBTMP=	293.1	A =	-143.2		B =	AVP =
BVP =		CVP =		VPUPRSND=			VPLWRBND=	AVCP =
BVCP =		CVCP =		DVCP =			VHCUPSD=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCONSTN=			HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLWLIM=			UPFLWLIM=	BURNRATE=
TOXINHAL=	0.5550E-01	INHALLCNC=		INHALTME=			LOTOXLIM=	UPTOXLIM=
LAFETOX =		ABFLMTMP=		MOLRATIO=			AIRFUEL =	FLMETEMP=
MOLFRAC =								

FOX	CHEMNAME = FERROUS OXALATE		PATHCODE = II	
	MOLECWt = 179.9	NBP =	NFP =	CRITTEMP=
	DENSITY = 2300.	DENSTEMP=	293.1	SHPSSTATE=S
	CRHO =	LDUPREND=		LOVISPLT=
	AVIS =	BVIS =	LVUPRSNO=	LVLPBND=
	LTHCNTMP=	ACON =	BCON =	LTCUPBND=
	LQHTCPPT=	LQHTCPTM=	AHC =	BHC =
	LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=
	SOLUBPNT=	SOLUBTMP=	A =	B =
	BVP =	CVP =	VPUPRSND=	VPLWREND=
	BVCP =	CVCP =	QVCP =	VHCUPBND=
	HTFUSION=	LHTVAPOR=	HTCOMBNTN=	HTDECOUP=
	HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=
	TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=
	LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =
	MOLFRAC =			FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FRS      CHEMNAME = FERROUS SULFATE      PATHCODE = SS
MOLECW  = 170.0      NBP      =
DENSITY = 1900.      DENSTMP = 288.2      SHPSTATE=S
CRHO    =           LDUPRND =
AVIS    =           BVIS     =
LTHCNTMP=           ACON     =
LOHTCPPT=           LOHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT=           SOLUBTMP=
BVP      =           CVP      =
BVCP     =           CVCP     =
HTFUSION=           LHTVAPOR=
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LAFETOX  =           ABFLMTMP=
MOLFRAC  =           MDLRATIO=

CRITTEMP=
BRHO     =
LOVISTMP=
LQTHRCND=
LTCLOSND=
LHCUPEND=
INTFTIMP=
AVP      = 0.5500
AVCP     =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03      0.5000E-02
FLMETEMP=
LOTOXLIM=
AIRFUEL  =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FSA  CHEMNAME = FLUOSULFONIC ACID          PATHCODE = A  0

MOLEWT = 100.1      NBP = 435.9
DENSITY = 1730.     DENSTEMP= 298.1
CRHO = 0.0000E+00   LOUPREND= 333.1
AVIS = -10.14       BVIS = 1105.
LTHCNTMP= 293.1     ACON = 0.1628
LQHTCPPT= 2093.     (E) LQHTCPTM= 293.1
LHCLOBND= 283.1     SURFTENS=
SOLUBPNT=           SOLUBTMP=
BVP = 2300.         CVP = -0.1500
BVCP =             CVCP =
HTFUSION=           LHTVAPOR= 0.3900E+06
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LAFETOX =           ABFLMTMP=
MOLFRAC =           MOLRATIO=

CRITPRES=
BRHO = -2.000
LOVISTMP= 293.1
LOTHRCND= 0.1628 (E)
LTCLOBND= 283.1
LHCUPBNO= 303.1
INTFTTMP=
AVP = 10.29
AVCP =
VHCLOBNO=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=
CRITTEMP=
ARHC = 2326.
LOVISPNT= 0.1700E-02
LVLWRBND= 253.1
LTCUPBND= 303.1
BHC = 0.0000E+00(E)
INTFTENS=
B =
VPLWRBND= 243.1
VHCUPBND=
HTOECOMP=
UPFLWLIM=
LOTOXLIM=
AIRFUEL =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/55/04 PAGE438

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FSF	CHEMNAME = FERRIC SULFATE	PATHCODE = SS	
MOLECWT =	399.9	NBP =	CRITPRES=
DENSITY =	3100.	DENSTEMP= 293.1	BRHO =
CRHO =		LDUPRND=	LQVISTMP=
AVIS =		BVIS =	LQTHRCND=
LTHCNTMP=		ACON =	LTCLOBND=
LQHTCPPT=		LQHTCPTM=	LHCUPBND=
LHCLOBND=		SURFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=	AVP =
BVP =		CVP =	AVCP =
BVCP =		CVCP =	VHCLOBND=
HTFUSIGN=		LHTVAPOR=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	BURNRATE=
TOXINHAL=	0.5600E-01	INHALCNC=	UPTOXLIM=
LATETOX =		ABFLMTMP=	FLMETEMP=
MOLFRAC =			
		HTCO:BTN=	
		LOFLMLIM=	
		INHALTME=	
		MOLRATIO=	
		VPUPRND=	
		DVCP =	
		A =	
		SFTNTENS=	
		AHC =	
		BCON =	
		LVUPRND=	
		LDLWRND=	
		SHPSTATE=S	
		NFP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

FSL  CHEMNAME = FLUOSILICIC ACID  PATHCODE = A  P
MOLECW = 144.1  NBP = 373.0  (E) NFP = 247.5  (E) CRITTEMP=
DENSITY = 1300.  (E) DENSITY = 298.1  SHPSTATE=L  ARHO =
CRHO =  LDUPREND=  LDWRBND=  LQVISPT=  LQVISIMP=
AVIS =  BVIS =  LVUPREND=  LVLWRBND=  LOTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
LOHTCPPT=  LOHTCPTM=  AHC =  BHC =  LHCUPBND=
LHCLOBND=  SURFTENS=  SFTNTEMP=  INTFTENS=  INTFTIMP=
SOLUBPNT=  SOLUSTMP=  A =  B =  AVP =
BVP =  CVP =  VPUPREND=  VPLWRBND=  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPEND=  VHCLOBND=
HTFUSION=  LHTV_POR=  HTCOMSTN=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLV_LIM=  HTDECOMP=
TOXINHAL=  INHALCNC=  INHALTME=  UPFLMLIN=  BURNRATE=
LATETOX =  ABFLNTMP=  MOLRATIO=  UPTOXLIM=
MOLFRAC =  FLMETEMP=
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

FUM    CHEMNAME = FUMARIC ACID                                PATHCODE = II
MOLEWT = 116.1      NBP =      SHPS:ATE=S
DENSITY = 1635.      293.1
CRHO =      LDLWRBND=
AVIS =      LVUPRND=
LTHCNTMP=      BCON =
LQHTCPPT=      AHC =
LHCLOBND=      SFTNTMP=
SOLUBPNT= 0.7000      A =      298.1
BVP =      VPUPRND=
BVCP =      DVCP =
HTFUSIGN=      LHTVAPOR=      HTOECOMP= -0.1160E+08
HTREACTN=      HTPOLYMR=      UPFLMLIM=
TOXINHAL=      INHALCNC=      LOTOXLIN=
LATETOX =      ABFLNTMP=      MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBNO=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIN=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FXX  CHEMNAME = FLUORINE                PATHCODE = A  C
MOLECWT = 37.99      NBP = 85.00      NFP = 54.00      CRITTEMP= 144.6      CRITPRES= 0.55BCE+07
DENSITY = 1500.      DENSTEMP= 85.16      SHPSSTATE=L      ARHO = 1559.      BRHO = -0.7300
CRHO = 0.0000E+00      LDUPREND= 173.2      LDWRBNO= 85.16      LOVISPT=      LOVISTMP=
AVIS =      8VIS =      LVUPRSND=      LVLWRBND=      LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPEND=      LTCLO5NO=      LTHRCND=
LOHTCPPT= 1600.      (E) LOHTCPTM= 100.0      (E) AHC = 1600.      (E) BHC = 0.0000E+00(E) LHCUPBNO= 110.0      (E)
LHCLOBNO= 90.00      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.896
BVP = 331.0      CVP = 0.4004E-01      VPUPR9NO= 143.2      VPLWRBND= 83.16      AVCP = 0.2396E+05
BVCP = 30.75      CVCP = -0.1989E-01      OVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBNO= 250.0
HTFUSION=      LHTVAPOR= 0.1666E+06      HTCOVSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 1.000      INHALCNC= 0.5000      INHALTWE= 300.0      LCTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

GAK	CHEMNAME	=	GASOLINE	BLENDING	STOCKS:	ALKYLATES	PATHCODE	=	A	T
-----	----------	---	----------	----------	---------	-----------	----------	---	---	---

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
GAT  CHEMNAME = GASOLINE: AUTOMOTIVE (J4.23G LEAD/GAL.)  PATHCODE = A  T  U  V  W
MOLEWT =          NBP = 333.0 (E) NFP =          CRITTEMP=
DENSITY = 710.0 (E) OENSTEMP= 293.2 SHPSTATE=L          ARHO = 947.0 (E) BRHO = -0.9000 (E)
CRHO = 0.0000E+00(E) LDUPRND= 353.0 (E) LDWRND= 273.0 (E) LOVISPT= 0.4200E-03(E) LOVISTMP= 293.0 (E)
AVIS = -11.00 (E) BVIS = 943.0 (E) LVUPRND= 353.0 (E) LVLWRND= 273.0 (E) LOTHRCND= 0.1280 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1950 (E) BCON = -0.2300E-03(E) LTCUPBND= 363.0 (E) LTCLOBND= 273.0 (E)
LOHTCPT= 2210. (E) LOHTCPTM= 293.0 (E) AHC = 1229. (E) BHC = 3.350 (E) LHCUPBND= 333.0 (E)
LHCLOBND= 253.0 (E) SURFTENS= 0.2100E-01(E) SFTNTMP= 293.2 INTFTENS= 0.5000E-01(E) INTFTTMP= 293.2
SOLUBPNT=          SOLUBTMP=          A =          P =          AVP =
BVP =          CVP =          VPUPRND=          VPLWRND=          AVCP = -2972. (E)
BVCP = 647.0 (E) CVCP = -0.2700 (E) DVCP = 0.0000E+00(E) VHCUPBND= 600.0 (E) VHCLOBND= 250.0 (E)
HTFUSION=          LHTVAPOR= 0.2973E+06(E) HTCONSTN= -0.4354E+08 HTDECONP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLNLIM= 1.400 UPFLMLIM=          BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC= 500.0 INHALTME= 1800. LOTOXLIM= 0.5000E-03 UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
GAV  CHEMNAME = GASOLINE: AVIATION (14.86G LEAO/GAL.)  PATHCODE = A  T  U  V  W
MOLEWT =      NBP      = 344.0 (E) NFP      = 297.6 (E) CRITTEMP=
DENSITY = 710.0      OENSTMP= 288.2      SHPSTATE=L      ARHO      = 947.0 (E) BRHO      = -0.9000 (E)
CRHO      = 0.0000E+00(E) LOUPR8NO= 353.0 (E) LOLWREND= 273.0 (E) LOVISPT= 0.4200E-03(E) LQVISTMP= 293.0 (E)
AVIS      = -11.00 (E) BVIS      = 943.0 (E) LVUPR8ND= 353.0 (E) LVLWR8ND= 273.0 (E) LQTHRCNO= 0.1280 (E)
LTHCNTMP= 293.0 (E) ACON      = 0.1950 (E) BCON      = -0.2300E-03(E) LTCUPBND= 363.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 2210. (E) LQHTCPTM= 293.0 (E) AHC      = 1229. (E) EHC      = 3.350 (E) LHCUPBNO= 333.0 (E)
LHCLOBNO= 253.0 (E) SURFTENS= 0.2100E-01(E) SFTNTMP= 293.2  INTFTENS= 0.5000E-01(E) INTFTTMP= 293.2
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
BVP      =      CVP      =      VPUPR8NO=      VPLWREND=      AVCP      = -2972. (E)
BVCP      = 647.0 (E) CVCP      = -0.2700 (E) OVCP      = 0.0000E+00(E) VHCUPBND= 600.0 (E) VHCLOBNO= 250.0 (E)
HTFUSION=      LHTVAPOR= 0.2973E+06(E) HTCOMSTN= -0.4354E+08  HTOECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.200  UPFLMLIN= 7.100  BURNRATE=
TOXINHAL=      INHALCNC= 500.0  INHALTME= 1800.  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

GCM CHEMNAME = GLYCIOYL METHACRYLATE

PATHCODE = A T U X Y Z

MOLECW = 142.2	NBP =	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 1073.	OENSTEMP = 293.2	SHPSSTATE=L	ARHO =	(E) 8RHO =	0.0000E+00(E)
CRHO = 0.0000E+00(E)	LDUPRENO = 303.0	(E) LDLWPRND =	283.0	(E) LQVISPAT =	0.5600E-02(E) LQVISTMP =
AVIS = -18.80	(E) 8VIS =	4000.	(E) LVLWRBND =	283.0	(E) LQTHRCNO =
LTHCNTMP = 293.0	(E) ACON =	0.1500	(E) LTCUPBND =	303.0	(E) LTCLOBNO =
LQHTCPPT = 2000.	(E) LQHTCPTM =	293.0	(E) AHC =	0.0000E+00(E)	LHCUPBND =
LHCLOBND = 283.0	(E) SURFTENS =	0.2500E-01(E)	SFTNTMP =	293.0	(E) INTFTENS =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	
8VP =	CVP =	VPUPRNO =	VPLWRBND =	AVCP =	0.2000E+06(E)
8VCP = 0.0000E+00(E)	CVCP =	0.0000E+00(E)	OVCP =	400.0	(E) VHCLOBNO =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	-0.2500E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	-0.2000E+07(E)	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 25.00	INHALCNC =	INHALTME =	LOTOXLIN =	UPTOXLIM =	0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

GCS CHEMNAME = GASOLINE: CASINGHEAD PATHCODE = A T U V W

MOLEWT =	NBP =	287.0	(E) NBP =	CRITTE:P =	CRITPRES =
DENSITY =	669.0	(E) DENSTEMP =	293.2	SHSTATE=L	ARHO =
CRHO =	0.0000E+00(E)	LDUPRBNB =	353.0	(E) LDWRBND =	273.0
AVIS =	-11.00	(E) BVIS =	943.0	(E) LVUPRBNB =	353.0
LTHCNTMP =	293.0	(E) ACON =	0.1950	(E) BCON =	-0.2300E-03(E)
LQHTCPPT =	2210.	(E) LOHTCPTM =	293.0	(E) AHC =	1229.
LHCLOBNO =	253.0	(E) SURFTENS =	0.2100E-01(E)	SFTNTMP =	293.2
SOLUBPNT =		SOLUBTMP =	A =	B =	AVP =
BVP =		CVP =	VPUPRBNB =	VPLWRBND =	AVCP =
BVCP =	647.0	(E) CVCP =	-0.2700	(E) DVCP =	0.0000E+00(E)
HTFUSION =		LHTVAPOR =	0.2973E+06(E)	HTCOMSTN =	-0.4354E+08
HTREACTN =		HTPOLYMR =		LOFLMLIM =	1.300
TOXINHAL =		INHALCNC =	500.0	INHALTME =	1800.
LATEOX =		ABFLMTMP =		MOLRATIO =	
MOLFRAC =					

947.0 (E) BRHO = -0.9000 (E)
 0.4200E-03(E) LOVISTMP = 293.0 (E)
 273.0 (E) LOTHRCND = 0.1280 (E)
 363.0 (E) LTCLOBND = 273.0 (E)
 3.350 (E) LHCUPBND = 333.0 (E)
 0.5000E-01(E) INTFTTMP = 293.2
 600.0 (E) VHCLOBND = 250.0 (E)
 HTSOLUTN =
 7.100 BURNRATE = 0.6667E-04
 0.5000E-03 UPTOXLIM = 0.5000E-02
 AIRFUEL = FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

GLA CHERNAME = GALLIC ACID

PATHCODE = II SS

MOLECW = 188.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1.700	DENSTEMP = 293.1	SHRSTATE = S	ARHD =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LOVISPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =	LHCLOBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTTMP =	INTFTTMP =
SOLUBPNT = 1.150	SCLUBTMP = 293.1	A =	AVP =	AVP =
BVP =	CVP =	VPUPREND =	AVCP =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOHSTN = -0.1410E+08	HTSOLUTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLY/LIM =	BURNRATE =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =	FLMETEMP =
MOLFRAC =				

[illegible]

PATHCDE = A P

MOLECWT =	NBP =	NFP =	258.0	CRITTEMP=	CRITPRES=
DENSITY =	DENSTEMP=	293.1	SHPSSTATE=L	ARHO =	BRHO =
CRHO =	LDUPREND=	303.1	LDLWRBND=	LQVISPNT=	LQVISTMP=
AVIS =	BVIS =		LVUPRBNB=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =		BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=		AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=		SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=		A =	B =	AVP =
BVP =	CVP =		VPUPRBNB=	VPLWRBND=	AVCP =
BVCP =	CVCP =		DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=		HTCOMBSIN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=		LOFLNLIM=	UPFLNLIN=	BURNRATE=
TOXINHAL=	INHALCNC=		INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =	ABFLMTMP=		MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =					
				0.5000E-02	0.1500E-01

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN: S. SYSTEM OF UNITS

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GPL  CHEMNAME = GASOLINE: POLYMER      PARICODE = A  T  U  V  W

MOLEWT =      NBP =      287.0  (E)  NFP =      SHPSIATE=L      CRITTEMP=      CRITPRES=
DENSITY =      710.0  (E)  OENSTEMP=      288.2      ARHO =      947.0  (E)  BRHO =      -0.9000  (E)
CRHO =      0.0000E+00(E)  LDUPRND=      353.0  (E)  LDLWPSND=      273.0  (E)  LOVISPT=      0.420DE-03(E)  LOVISTMP=      293.0  (E)
AVIS =      -11.00  (E)  8VIS =      943.0  (E)  LVUPRND=      353.0  (E)  LVLWRBND=      273.0  (E)  LOTHRCND=      0.1280  (E)
LTHCNTMP=      293.0  (E)  ACON =      0.195D  (E)  BCON =      -0.2300E-D3(E)  LTCUPBND=      363.0  (E)  LTCLOBND=      273.0  (E)
LOHTCPPT=      2210.  (E)  LOHTCPTM=      293.0  (E)  AHC =      1229.  (E)  BHC =      3.350  (E)  LHCUPBNO=      333.0  (E)
LHCLOBNO=      253.0  (E)  SURFTENS=      0.2100E-01(E)  SFTNTEMP=      293.2      INTFTENS=      0.500DE-01(E)  INTFTTMP=      293.2
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VPUPRND=      VPLWRBND=      AVCP =      -2972.  (E)
BVCP =      647.0  (E)  CVCP =      -0.2700  (E)  DVCP =      0.0000E+00(E)  VHCUPBND=      600.0  (E)  VHCLOBND=      250.0  (E)
HTFUSION=      LHTVAPOR=      0.2973E+06(E)  HTCONSTN=      -0.4354E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LDFTLIM=      1 300      UPFLMLIM=      7.100      BURNRATE=      0.6667E-04
TOXINHAL=      INHALCNC=      500.0      INHALTME=      1800.      LOTOXLIN=      0.5000E-03      UPTOXLIM=      0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
GRF  CHEMNAME = GASOLINE BLENDING STOCKS: REFORMATS      PATHCODE = A  T  U  V  W
MOLEWT =          NEP = 287.0 (E) NFP =          CRITTEMP=
DENSITY = 710.0 (E) DENSTEMP= 288.2          SHPSIATE=L      APHO = 947.0 (E) BRHO = -0.9000 (E)
CRHO = 0.0000E+00(E) LOUPRENO= 353.0 (E) LOLWFBNO= 273.0 (E) LOVISPAT= 0.4200E-03(E) LQVISTMP= 293.0 (E)
AVIS = -11.00 (E) BVIS = 943.0 (E) LVUPRBN0= 353.0 (E) LVLWRBND= 273.0 (E) LQTHRCND= 0.1280 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1950 (E) BCON = -0.2300E-03(E) LTCUPBND= 363.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 2210. (E) LQHTCPTM= 293.0 (E) AHC = 1229. (E) BHC = 3.350 (E) LHCUPBND= 333.0 (E)
LHCLOBND= 253.0 (E) SURFTENS= 0.2100E-01(E) SFTNTMP= 293.2          INTFTENS= 0.5000E-01(E) INTFTMP= 293.2 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VPUPRBN0=          VPLWRBNO=          AVCP = -2972. (E)
BVCP = 647.0 (E) CVCP = -0.2700 (E) DVCP = 0.0000E+00(E) VHCUPBND= 30.0 (E) VHCLOBNO= 250.0 (E)
HTFUSION=          LHTVAPOR= 0.2973E+06(E) HTCOM:9TN= -0.4354E+08          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.100          BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC= 500.0          INHALTME= 1800.          LOTOXLIN= 0.5000E-03          UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```


PATHCODE = A T U V W

CHEMNAME = GASOLINE: STRAIGHT RUN									
PATHCODE = A T U V W									
MOLECW	=	NBP	=	287.D	(E)	NFP	=	CRITTEMP	=
DENSITY	=	710.0	(E)	DENSTEMP	=	288.2	(E)	SHPSIATE=L	=
CRHO	=	0.000DE+00(E)	(E)	LDUPRBN	=	353.0	(E)	LDLWPRND	=
AVIS	=	-11.00	(E)	BVIS	=	943.0	(E)	LVUPRBN	=
LTHCNTMP	=	293.0	(E)	ACON	=	0.1950	(E)	BCON	=
LQHTCPPT	=	2210.	(E)	LQHTCPTM	=	293.0	(E)	AHC	=
LHCLOBND	=	253.0	(E)	SURFTENS	=	0.210DE-01(E)	(E)	SFINTEMP	=
SOLUBPNT	=			SOLUBTMP	=			A	=
BVP	=			CVP	=			VUPRBN	=
BVCP	=	647.0	(E)	CVCP	=	-0.2700	(E)	DVCP	=
HTFUSION	=			LHTVAPOR	=	0.2973E+D6(E)	(E)	HTCONDSTN	=
HTREACTN	=			HTPOLYMR	=			LOFLMLIM	=
TOXINHAL	=			INHALCNC	=	500.0		INHALTME	=
LATETOX	=			ABFLMTMP	=			MOLRATIO	=
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

GTA CHEMNAME = GLUTARALDEHYDE SOLUTION PATHCODE = A P

MOLEWT =	NBP =	373.0	(E) NFP =	266.0	(E) CRITTEMP =	CRITPRES =
DENSITY =	(E) DENSTEMP =	293.1	SHPSSTATE=L		ARHO =	1237. (E) BRHO = -0.5000 (E)
CRHO =	0.0000E+00(E) LDUPRBNB =	313.1	LDLWRBNB =	273.1	LQVISPRIT =	0.4500E-02(E) LOVISTMP = 293.1
AVIS =	BVIS =		LVUPRBNB =		LVLWRBNB =	LQTHRCND =
LTHCNTMP =	ACON =		BCON =		LTCUPBNB =	LTCLOBND =
LOHTCPPT =	(E) LOHTCPTM =	293.1	AHC =	2931.	(E) EHC =	LHCUPBNO = 303.1
LHCLOBNO =	273.1	SURFTENS =	0.8000E-01(E) SFTNTEMP =	293.1	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =		A =		B =	AVP =
BVP =	CVP =		VFUPRBNB =		VPLWRBNB =	AVCP =
BVCP =	CVCP =		OVCP =		VHCUPBNB =	VHCLOBND =
HTFUSION =	LHTVAPOR =		HTCOVSTN =		HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =		LOFLMLIM =		UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =		INHALTME =		LOTOXLIM =	UPTOXLIM = 0.5000E-03
LARETOX =	ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HAC CHEMNAME = HEXADECYLTRI-METHYLAMMONIUM CHLORIDE

PATHCODE = A P

MOLEWT = 319.0	NBP = 355.5	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 900.0 (E)	DENSTEMP= 298.1	SHPSSTATE=L	ARHO =	BRHO =
CRHO =	LDUPRBNB=	LDLWRBNB=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPRBNB=	LVLRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LOHTCPPT=	LOHTCPTM=	AHC =	BHC =	LHCUBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRBNB=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	LOPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				
		2.000	12.00	0.3841E-04
			0.5000E-04	0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

HA1  CHEMNAME = 2-HYDROXYETHYL ACRYLATE, INHIBITED      PATHCODE = A  P  Q  Z
MOLEWT = 116.1      NBP = 583.0      (E) NFP = 213.0      CRITTEMP=
DENSITY = 1100.      DENSTEMP= 298.1      SHPSTATE=L      ARHO = 1398.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRBN= 303.1      LDLWRBN= 273.1      LQVISPNT= 0.5700E-02(E) LQVISTMP= 293.1
AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPRBN= 298.1      LVLWRBN= 288.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBN= 298.1      LTCLOBND= 278.1
LOHTCPPT= 2052.      LOHTCPTM= 293.1      AHC = 824.2      (E) BHC = 4.187      (E) LHCUPBN= 303.1
LHCLOBND= 273.1      SURFTENS= 0.2800E-01(E) SFTNTEMP= 293.1      INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =          = 8      =          INTFTTMP=
BVP = 1750.      (E) CVP = -0.1500      (E) VFUPRBN= 363.1      VPLWRBN= 353.1      AVCP = 7.744      (E)
BVCP =          CVCP =          =          =          =          =          =          =          =
HTFUSION=          LHTVAPOR=          HTCONSTN= -0.2500E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR= -0.5060E+06(E) LOFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLM= 0.5000E-04      UPTOXLM= 0.5000E-03
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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HAL  CHEMNAME = N-HEXALDEHYDE      PATHCODE = A  T  U
MOLEWT = 100.0      NBP      = 401.0      NFP      =      CRITTEMP=
DENSITY = 830.0      DENSTEMP= 293.1      SHPSRATE=L      ARHO      = 1123.      (E) BRHO      = -1.000      (E
CRHO      = 0.0000E+00(E) LDUPREND= 298.1      LDWRBND= 278.1      LQVISPT=      LQVISTMP=
AVIS      =      8VIS      =      LVUPRBN=      LVLWRBND=      LQTHRCND= 0.1512      (E
LTHCNTMP= 293.1      ACON      = 0.1512      (E) BCON      = 0.0000E+00(E) LTCUPB'D= 298.1      LTCLOBND= 283.1
LOHTCPPT= 2010.      (E) LOHTCPTM= 293.1      AHC      = 2010.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 283.1      SURFTENS=      SFTNTEMP=      INTFTEMP=
SOLUBTMP=      A      =      B      =
BVP      =      CVP      =      VFUPRBN=      VPLWREND=
BVCP      = 487.0      (E) CVCP      = -0.2618      (E) DVCP      = 0.1901E-04(E) VHCUPS'D= 550.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3600E+06(E) HTCOMSTN= -0.3940E+08(E) HTDECOMD=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIN=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=
LAFETOX =      ABFLTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

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BURNRATE= 0.8701E-04

UPTOXLIM= 0.5000E-02

FLMETEMP=

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

HAS      CHEMNAME = HYDROXYLAMINE SULFATE      PATHCODE = SS

MOLECWt = 164.1      NBP =
DENSITY = 1000.      (E) DENSTEMP= 293.1
CRHO =
AVIS =
LTHCNTMP=
LOHTCPPT=
LHCLOBND=
SOLUBPNT= 64.00
BVP =
BVCP =
HTFUSIGN=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

NFP =
SHPSSTATE=S
LDLW#SND=
LVUPR#BND=
BCON =
AHC =
SFTNT#EMP=
A =
VFUPR#BND=
DVCP =
HTCOR#STN=
LOFL#LIM=
INHALTME=
MOLRATIO=

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=

CRITTEMP=
ARHO =
LOVISPNT=
LVLWRBND=
LTCUPB#D=
BHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLWLIN=
LOTOXLIM= 0.5000E-04
AIRFUEL =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

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*****
HBR      CHEMNAME = HYDROGEN BROMIDE      PATHCODE = A C K M N O
MOLEWT = 80.92      NBP = 206.4      NFP =      CRITTEMP = 363.0      CRITPRES = 0.8520E+07
DENSITY = 2140.      OENSTEMP = 206.1      SHPSIATE=L      ARHO = 3967.      BRHO = -8.850
CRHO = 0.0000E+00      LOUPRNO = 204.1      LOLWRBNO = 185.1      LOVISINT =      LOVISTMP =
AVIS =      BVIS =      LVUPRNO =      LVLWRBND =      LOTHRCND =
LTHCNTMP =      ACON =      BCON =      LTCUPBND =      LTCLOBND =
LOHTCPPT = 736.9      LOHTCPTM = 205.1      AHC = 736.9      BHC =      LHCUPEND = 208.1
LHCLOBND = 198.1      SURFTENS = 0.2710E-01      SFTNTEMP = 206.0      INTFTENS =      INTFTTMP =
SOLUBPNT = 193.0      SOLUBTMP = 298.1      A = 526.9      B = -1.120      AVP = 9.539
BVP = 935.6      CVP = 0.5000E-01      VFUPRNO = 263.1      VPLWRBND = 203.1      AVCP = 0.3019E+05
BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND = 373.0      VHCLOBNO = 273.0
HTFUSION =      LHTVAPOR = 0.2150E+06      HTCOMSTN =      HTSOLUTN = 0.1030E+07
HTREACTN =      HTPOLYMR =      LOFLMLIM =      UPFLMLIM =      BURNRATE =
TOXINHAL = 3.000      INHALCNC = 5.000      INHALTME = 300.0      LOTOXLM =      UPTOXLM =
LAETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HCC CHEMNAME = HEXACHLOROCYCLOPENTADIENE PATHCODE = A X
 MOLEWT = 272.7 NBP = 512.0 NFP = 283.0 CRITPRES= 2122. BRHO = -1.400
 OENSITY = 1710. OENSTEMP= 293.1 SHPSATE=L ARHO = 2122. LQVISTMP= 293.1
 CRHO = 0.0000E+00 LDUPRND= 298.1 LDLWRND= 273.1 LQVISP.T= 0.9350E-02 LQTHRCND= 293.1
 AVIS = -15.49 BVIS = 3170. LVUPRND= 313.1 LVLWRB.D= 293.1 LTCLOBND= 293.1
 LTHCNTMP= ACON = LOHTCPTM= LOHTCPTM= AHC = BHC = INTFTTMP= 10.36
 LHCLOBND= SURFTENS= 0.3750E-01 SFTNTEMP= 293.1 E = 373.1 AVCP = 373.1
 SOLUBPNT= SOLUBTMP= CVP = -0.1500 VFUPRND= 513.1 VPLWRB.D= 373.1 VHCLOBNO= 373.1
 BVP = 2744. CVCP = CVCP = HTVAPOR= 0.1800E+06(E) HTCO:STN= HTSOLUTN= 0.5000E-02
 BVCP = HTFUSION= HTPOLYMR= LOFLMLIM= UPFLMLIM= 0.5000E-03 UPTOXLIM= 0.5000E-02
 TOXINHAL= 0.1000 INHALCNC= INHALTIME= LOTCXLIM= 0.5000E-03 AIRFUEL = 0.5000E-02
 LATETOX = ABFLMTMP= MOLRATIO= FLMETEMP= 0.5000E-02
 MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

HCL  CHEMNAME = HYDROCHLORIC ACID          PATHCODE = A  P
MOLEWT =          NBP =          323.8      NFP =          CRITTEMP=
DENSITY =          1190.  DENSTEMP=          293.2  SHPSIATE=L      BRHO =          1317.
CRHO =          0.0000E+00  LDUPRBND=          373.2  LDLEBND=          273.2  LOVISIMP=
AVIS =          BVIS =          LVUPRBND=          BCON =          LTCUPBND=
LTHCNTMP=          ACON =          LOHTCPTM=          293.2  AHC =          18.00  LHCUPBND=
LHCLBND=          273.2  SURFTENS=          SFTNTMP=          INTFTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          11.49
BVP =          2100.  CVP =          0.4004E-01  VLUPRBND=          313.2  VPLWRBND=          283.2  AVCP =          0.2922E+05
BVCP =          0.0000E+00  CVCP =          0.0000E+00  OVCP =          0.0000E+00  VHCUPBND=          250.0  VHCLOBND=
HTFUSION=          LHTVAPOR=          0.3000E+06(E)  HTCOMBNTN=          HTDECOM=P=          HTSOLUTN=          -0.6000E+05(E)
HTREACTN=          HTPOLYMR=          LOFLVLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          5.000  INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAFETOX =          ABFLNTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HCN  CHEVNAME = HYDROGEN CYANIDE          PATHCODE = A  B  C  K  L  M  N
MOLEWT = 27.03      NEP = 298.9      NFP = 259.9      CRITTEMP= 456.7      CRITPRES= 0.5070E+07
DENSITY = 689.0      DENSTEMP= 293.2      SHPSRATE=L      ARHO = 1070.      BRHO = -1.300
CRHO = 0.0000E+00      LDUPRND= 298.2      LDWRSND= 253.2      LOVISPI.T= LQVISTMP=
AVIS = 8VIS =      LVUPRND=      LVLWRBND= LQTHRCND=
LTHCNTMP= ACON =      BCON =      LTCUPBND= LTCLOBND=
LQHTCPPT= 2646.      LOHTCFTM= 293.2      AHC = 2194.      EHC = 1.549      LHCUPBND= 323.2
LHCLBNO= 263.2      SURFTENS=      SFTNTMP=      INTFTES= INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      S =      AVP = 9.916
BVP = 1467.      CVP = 0.4004E-01      VFUPRND= 323.2      VPLWRND= 261.2      AVCP = 0.2110E+05
BVCP = 61.76      CVCP = -0.3977E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSICN= 0.2638E+06      LHTVAPOR= 0.1034E+07      HTCONSTN= -0.2455E+08      HTDECOMP= HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 5.600      UPFLMLIM= 40.00      BURNRATE= 0.3000E-04
TOXINHAL= 10.00      INHALCNC= 20.00      INHALTME= 1800.      LOTOXLIM= 0.5000E-04(E) UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO= 1.125      (E) AIRFUEL = 6.350      (E) FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HOQ  CHEMNAME = HYDROQUINONE          PATHCODE = SS
MOLEWT = 110.1      NBP = 558.0      NFP = 443.0      CRITTEMP=
DENSITY = 1330.      OENSTEMP= 293.1      SPSTATE=S      ARHO =
CRYO =              LDUPREND=              LQWRSND=      LQVISPNT=
AVIS =              BVIS =              LVUPRND=      LQTHRCNO=
LTHCNTMP=          ACON =              BCON =              LTCLOBNO=
LOHTCPPT=          LOHTCPTM=              AHC =              LHCUPBND=
LHCLOBND=          SURFIENS=              SFTNTEMP=      INTFTIMP=
SOLUBPNT= 7.000      SOLUBTMP= 293.1      A =              B =
BVP =              CVP =              VFUPRND=      VPLWRBD=
BVCP =              CVCP =              OVCP =              VHCUPBND=
HTFUSIGN=          LHTVAPOR=              HTCO:STN= -0.2600E+08      HTSOLUTN=
HTREACTN=          HTPOLYMR=              LOFLMLIM=      UPFLMLIN=
TOXINHAL= 0.4070      INHALCNC=              INHALTME=      LOTOXLIM=
LATETOX =          ABFLMTMP=              MOLRATIO=      UPTOXLIM=
MOLFRAC =          FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S4 SYSTEM OF UNITS

HDS	CHEMNAME = HYDROGEN SULFIDE	PATHCODE = A B C D E F G							
	MOLECWt = 34.08	NBP =	212.8	NFP =	190.4	CRITTEMP=	373.6	CRITPRES=	0.9010E+07
	DENSITY = 916.0	DENSTEMP=	213.2	SHPSTATE=L		ARHO =	1212.	BRHO =	-1.400
	CRHO = 0.0000E+00	LDUPRBDN=	273.2	LDLWRBND=	213.2	LQVISPNT=	0.5100E-03	LOVISTMP=	193.2
	AVIS =	BVIS =		LVUPRBDN=		LVLWRBND=		LOTHRCDN=	
	LTHCNTMP=	ACON =		BCON =		LTCUPBND=		LTCLOBND=	
	LQHTCPPT= 1800.	(E) LOHTCPTM=	212.0	(E) AHC =	1800.	(E) EHC =	0.0000E+00(E)	LHCUPBND=	222.0 (E)
	LHCL08ND= 202.0	(E) SURFTENS=	0.3000E-01(E)	SFTNTEMP=	212.0	(E) INTFIENS=		INTFTTMP=	
	SOLUBPNT=	SOLUBTMP=	A =		B =			AVP =	9.559
	BVP = 970.0	CVP =	0.4004E-01	VUPRBDN=	283.2	VPLWRBND=	208.2	AVCP =	0.3161E+05
	BVCP = 5.024	CVCP =	0.1256E-01	DVCP =	0.0000E+00	VHCUPBND=	600.0	VHCL08ND=	250.0
	HTFUSION= 0.6992E+05	LHTVAPOR=	0.5443E+06	HTCCOSTN=	-0.1524E+08	HTDECOMP=		HTSOLUTN=	
	HTREACTN=	HTPOLYMR=		LOFLMLIM=	4.300	UPFLWLM=	45.00	BURNRATE=	0.3833E-04
	TOXINHAL= 10.00	INHALLCNC=		INHALLME=		LCTOXLM=		UPTOXLIM=	
	LAFETOX =	ABFLMTMP=		MOLRATIO=	1.250	(E) AIRFUEL =	6.040	(E) FLMETEMP=	
	MOLFRAC =								

PATHCODE = A P O

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HFA  CHEMNAME = HYDROFLUORIC ACID          PATHCODE = A  P
MOLEWT =      NBP      = 340.0      NFP      =
DENSITY = 1258.      OENSTEMP= 298.2      SHPSTATE=L
CRHO      = 0.0000E+00      LOUPRBNO= 303.2      LCLWRBND= 263.2      CRITPRES=
AVIS      =      BVIS      =      ACON      =      LQHCPTM= 300.2      AHC      = 643.4      BHC      = 8.374      LHCUPBND= 303.2
LTHCNTMP=      LQHCNTMP=      SURFTENS=      SOLUBTMP=      A      =      B      =      AVP      =
LHCLGBND= 273.2      SURFTENS=      SOLUBTMP=      A      =      B      =      AVP      =
BVP      =      CVP      =      CVCP      = 0.0000E+00      OVCP      = 0.0000E+00      HTOCOMP=
BVCP      = 0.0000E+00      CVCP      = 0.0000E+00      HTVAPOR= 0.4000E+06(E)      HTCOMBNTN=
HTFUSION=      HTPOLYMR=      INHALCNC=      ABFLMTMP=      MOLFRAC =
HTREACTN=      TOXINHAL= 3.000      LAFETOX =      MOLFRAC =
HTSOLUTN= -0.7000E+05(E)
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HFX  CHEMNAME = HYDROGEN FLUORIDE      PATHCODE = A  C  K  M  N  O
MOLEWT = 20.01      NBP = 292.7      NFP = 181.0      CRITTEMP= 503.B      CRITPRES= 0.7580E+07
DENSITY = 992.0      DENSTEMP= 293.2      SHPSIATE=L      ARHO = 1402.      BRHO = -1.400
CRHO = 0.0000E+00      LDUPREND= 293.2      LDLRBND= 253.2      LOVISPAT=      LOVISTMP=
AVIS =      BVIS =      LVUPRSND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 3000.      (E) LOHTCPTM= 283.0      (E) AHC = 3000.      (E) BHC =      (E) LHCUPBND= 293.0      (E
LHCLOBND= 273.0      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.519
BVP = 1317.      CVP = 0.4004E-01      VFUPRSND= 273.2      VPLWRBND= 213.2      AVCP = 0.2914E+05
BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLGBND= 250.0
HTFUSION=      LHTVAPOR= 0.3370E+06      HTCONSTN=      HTDECONP=      HTSOLUTN= -0.3076E+07
HTREACTN= -0.3076E+07      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL= 3.000      INHALCNC= 3.000      INHALTME= 900.0      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HMO CHEM/NAME = HEXAMETHYLENEDIAMINE

PATHCODE = A P C

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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HMI  CHEMNAME = HEXAMETHYLENIMINE          PATHCODE = A  P  C
MOLECW = 99.00      NBP = 405.0      CRITPRES =
DENSITY = 880.0      DENSITY = 293.1      SHPSIATE=L      CRITTEMP =
CRHO = 0.0000E+00(E) LDUPRND = 298.1      LDUPRND = 278.1      LDUPRND = 278.1      (E) BRHO = -1.000 (E)
AVIS =
LTHCNTMP =
LOHTCPPT =
LHCLOBND =
SOLUBPNT = 5.000 (E) SOLUBTMP = 293.1      A =
BVP = 2228.      CVP = -0.1500      VFUPRND = 405.1      VPLWRB'D = 288.1      AVCP =
BVCP =
HTFUSIGN =
HTREACTN =
TOXINHAL =
LATETOX =
MOLFRAC =
BVIS =
ACON =
LOHTCPTM =
SURFTENS =
(E) SOLUBTMP = 293.1      A =
CVP =
CVCP =
LHTVAPOR =
HTPOLYMR =
INHALCNC =
ABFLWTMP =
NFP =
SHPSIATE=L
LDLWRBND = 278.1
LVUPRND =
SCON =
AHC =
SFINTEMP =
A =
VFUPRND = 405.1
DVCN =
HTCOBND =
LOFLW'LIM = 1.60D
INHALTWE =
MOLRATIO =
CRITTEMP =
ARHO =
LOVISPT =
LVLWRB'D =
LTCUPB'D =
BHC =
INTFTENS =
E =
VPLWRB'D =
VHCUPB'D =
HTDECON =
UPFLW'LIM = 2.300
LOTOXLIM =
AIRFUEL =

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Q.5000E-04(E)

FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HMT CHEMNAME = HEXAMETHYLENETETRAMINE

PATHCODE = SS

MOLEWT = 140.2	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1350.	DENSTEMP= 293.2	SHPSSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	SHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTMP=
SOLUBPNT=	SOLUBTMP=	A = 15.44	B = 0.2400	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.3098E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	UPFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HPA	CHEMNAME = HYDROXYPROPYL ACRYLATE	PATHCODE = A P Q Z		
MOLECWT = 130.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1060.	DENSTEMP = 298.1	SHPSSTATE = L	ARHO =	BRHO =
CRHO =	LDUPRND =	LDLARBND =	LOVISPT =	LOVISMP =
AVIS =	BVIS =	LVUPRND =	VLARBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPSND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTES =	INTFTMP =
SOLUSPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VFUPRND =	VPLARBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLARBND =	VHCLOBND =
HTFUSION =	LMTVAPOR =	HTCONSTN = -0.287DE+08(E)	HTDECCP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LDFLMLIM = 1.800	LPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTIME =	LTJTOXLIM =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HPM	CHEMNAME = HYDROXYPROPYL METHACRYLATE	PATHCODE = A	P	O	Z
MOLEWT =	144.0	NBP =		CRITTEMP =	CRITPRES =
DENSITY =	1060.	DENSTEMP =	293.1	SRSTATE = L	BRHO =
CRHO =		LDUPREND =		LDLWRBND =	LQVISTMP =
AVIS =		BVIS =		LVUPREND =	LQTHRCND =
LTHCNTMP =		ACON =		BCON =	LTCLOBND =
LQHTCPPT =		LQHTCPTM =		AHC =	LHCUPBND =
LHCLOBND =		SURFENS =		SFTNTEMP =	INTFTTMP =
SOLUBPNT =		SOLUBTMP =		A =	AVP =
BVP =		CVP =		VFUPREND =	AVCP =
BVCP =		CVCP =		DVCP =	VHCLOBND =
HTFUSION =		LHTVAPOR =		HTCOMSTN =	HTSOLUTN =
HTREACTN =		HTPOLYMR =		LOFLMLIM =	BURNRATE =
TOXINHAL =		INHALCNC =		INHALTME =	UPTOXLIM =
LAFETOX =		ABFLMTMP =		MOLRATIO =	FLMETEMP =
MOLFRAC =					
					0.5000E-02
					0.1500E-01

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

HPO  CHEMNAME = HYDROGEN PEROXIDE          PATHCODE = A  P  Z
MOLECW = 34.01  NBP = 398.0  NFP = 232.9  CRITPRES=
DENSITY = 1290.  DENSTEMP= 293.2  SHPS:ATE=L  ARHO = 1593.  BRHO = -1.0000
CRHO = 0.0000E+00  LOUPRENO= 303.2  LOLWRBNO= 273.2  LOVISPAT=  LOVISTMP=
AVIS =  BVIS =  LVUPRSND=  LVLWRBND=  LQTHRCND=
LTHCNTMP=  ACCN =  BCON =  LTCUPBND=  LTCLOBNO=
LOHTCPPT= 3182.  LOHTCPTM= 293.2  AHC = 3182.  EHC = 0.0000E+00  LHCUPBND= 303.2
LHCLOBNO= 283.2  SURFTENS=  SFTNTMP=  INTFTENS=  INTFTIMP=
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 10.98
BVP = 2394.  CVP = 0.4005E-01  VFUPREND= 363.2  VPLWRBND= 273.2  AVCP = 0.2077E+05
BVCP = 91.90  CVCP = -0.5652E-01  DVCP = 0.0000E+00  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.1514E+07(E)  HTCO:STN=  HTSOLUTN= -0.4689E+05
HTREA:CTN= -0.4689E+05  HTPOLYMR=  LOFL:VLM=  UPFLMLIM=  BURNRATE=
TOXINHAL= 1.000  INHALCNC=  INHA_TIME=  LOTCXLM=  UPTOXLM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```


HSS	CHENNAME =	HEXADECYL SULFATE, SODIUM SALT	PATHCODE = A P			
	MOLECW =	NBP =	NFP =	CRITTEMP =	CRITPRES =	
	DENSITY =	1000.	DENSTEMP =	293.1	SHPSSTATE=L	BRHO =
	CRHO =		LDUPREND =		LDLWREND =	LOVISTMP =
	AVIS =		BVIS =		LVUPREND =	LOTHRCND =
	LTHCNTMP =		ACON =		BCON =	LTCLOBND =
	LOHTCPPT =		LOHTCPTM =		AHC =	LHCUPBND =
	LHCLOBND =		SURFTENS =		SFTNTEMP =	INTFTTMP =
	SOLUBPNT =		SOLUBTMP =		A =	AVP =
	BVP =		CVP =		VFLWRBND =	AVCP =
	BVCP =		CVCP =		DVCP =	VHCLOBND =
	HTFUSION =		LHTVAPOR =		HTCOMSTN =	HTSOLUTN =
	HTREACTN =		HTPOLYMR =		LOFLMLIM =	BURNRATE =
	TOXINHAL =		INHALCNC =		INHALTME =	UPTOXLIM =
	LARETOX =		ABFLMTMP =		MOLRATIO =	FLMETEMP =
	MOLFRAC =					

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/06/06 PAGE 26 A

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

HTC		CHEMNAME = HEPTACHLOR		PATHCODE = II		
MOLEWT =	373.5	NBP =		NFP =	333.0	(E) CRITTEMP=
DENSITY =	1660.	DENSTEMP=	293.1	SHPSTATE=S		ARHO =
CRHO =		LDUPREND=		LDLWRBND=		LOVISPT=
AVIS =		BVIS =		LVUPREND=		LVLWRBND=
LTHCNTYP=		ACON =		BCON =		LTCUPBND=
LHTCPTM=		LHTCPTM=		AHC =		BHC =
LHCLOBND=		SURFTENS=		SFTNTMP=		INTFTMP=
SOLUBP.T=		SOLUBTMP=		A =		B =
BVP =		CVP =		VFUPREND=		VPLWRBND=
BVCP =		CVCP =		DVCP =		VHCUPBND=
HTFUSIGN=		LHTVAPOR=		HTCOMSTN=		HTDECVP=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		LPFLMLIM=
TOXINHAL=	0.3000E-01	INHALCNC=	0.1200	INHALTME=	1800.	LOTOXLIM=
LAETOX =		ABFLMTMP=		MOLRATIO=		UPTOXLIM=
NOLFRAC =						AIRFUEL =
						FLMETENP=
						BURNRATE=
						HTSOLUTN=
						VHCLOBND=
						AVCP =
						AVP =
						INTFTIMP=
						LHCUPBND=
						LTCLOBND=
						LOTHRCND=
						LOVISTMP=
						BRHO =
						CRITPRES=

C.5000E-03

0.500DE-04

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE, (U)
DEC 76 E ATKINSON

F/G 7/2

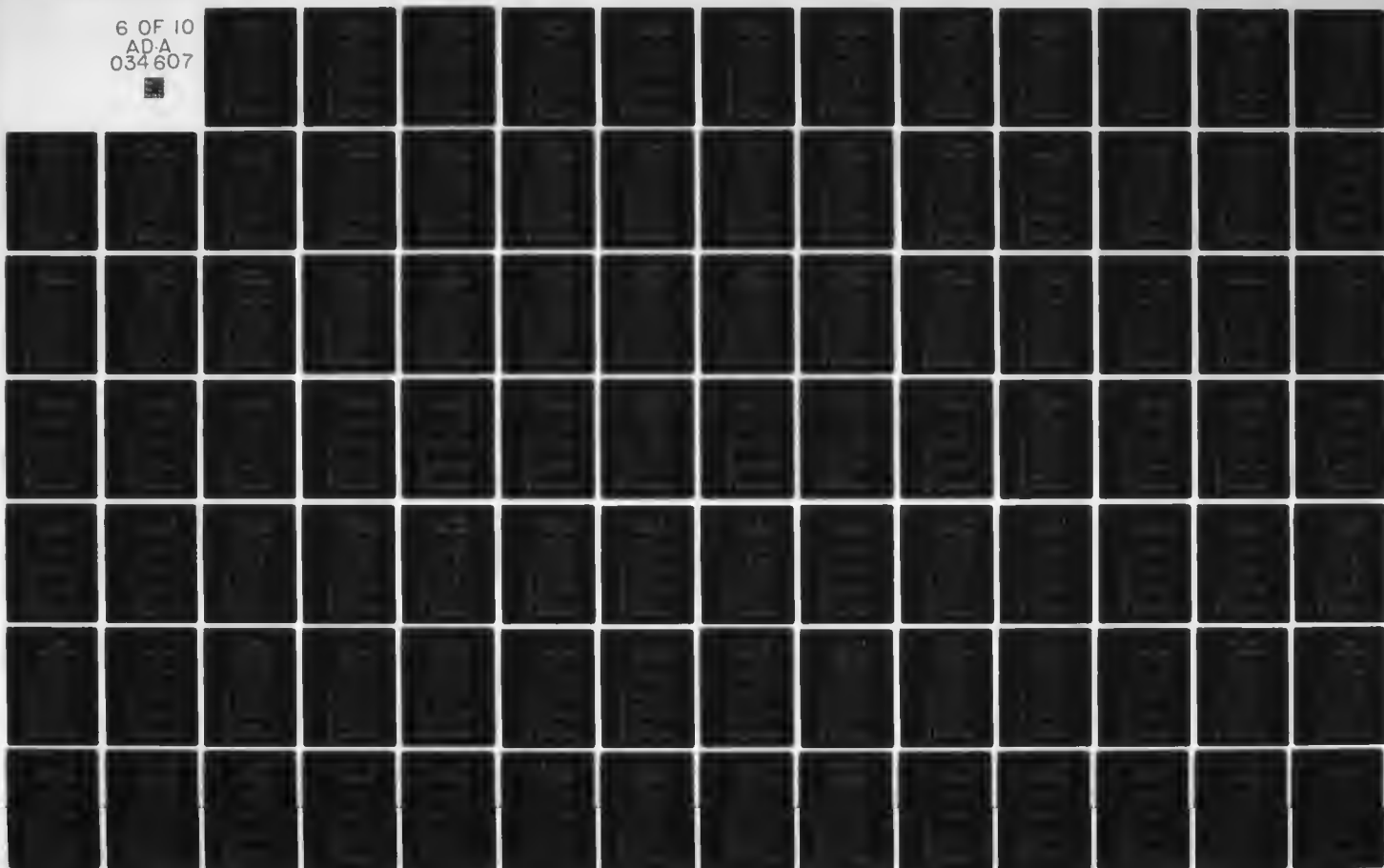
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

6 OF 10
AD-A
034 607



PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HTE CHEMNAME = 1-HEPTENE

PATHCODE = A T U V W

MOLEWT = 98.18	NBP = 366.8	NFP = 154.0	CRITTEMP = 537.3	CRITPRES = 0.2890E+07
DENSITY = 697.0	OENSTEMP = 293.2	SHPSRATE=L	ARHO = 955.4	BRHO = -0.8800
CRHO = 0.0000E+00	LOUPRNO = 363.2	LDLWRSND = 273.2	LQVISPLT = 0.3500E+03	LQVISTMP = 293.2
AVIS = -10.86	BVIS = 851.3	LVUPRSND = 363.2	LVLRBSND = 273.2	LQTHRCND = 0.1419
LTHCNTMP = 293.2	ACON = 0.2953	BCON = -0.5233E-03	LTCUPBSND = 333.2	LTCLOBNO = 253.2
LQHTCPT = 2152.	LQHTCPTM = 293.2	AHC = 1193.	BHC = 3.266	LHCUPBND = 353.2
LHCLOBNO = 253.2	SURFTENS = 0.2050E-01	SFTNTEMP = 293.2	INTFTELS = 0.5000E-01(E)	INTFTIMP = 293.0 (E
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 9.025
BVP = 1258.	CVP = -53.96	VFUPRSND = 373.2	VPLWRBSND = 253.2	AVCP = 0.1424E+05
BVCP = 527.1	CVCP = -0.1200	OVCP = 0.0000E+00	VHCUPBSND = 600.0	VHCLOBNO = 250.0
HTFUSION =	LHTVAPOR = 0.3195E+06	HTCOMSTN = -0.4507E+08	HTDECONP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.000	UPFLMLIM =	BURNRATE = 0.1067E-03
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
HTN      CHEMNAME = HEPTANOL
MOLECW = 116.2      NBP = 449.0      CRITTEMP = 633.0      CRITPRES = 0.3000E+07
DENSITY = 822.0      DENSTEMP = 293.2      ARHO = 1068.      BRHO = -0.8400
CRHO = 0.0000E+00      LDUPRNO = 373.2      LOVISPT = 0.7010E-02      LOVISTMP = 293.2
AVIS = -15.32      BVIS = 3037.      LVLWRB:D = 283.2      LOTHRCND = 0.1337
LTHCNTMP = 293.2      ACON = 0.1571      LTCUPB:D = 373.2      LTCLOBND = 253.2
LOHTCPPT = 2081.      LOHTCPTM = 293.2      BHC = 8.792      LHCUPBNO = 393.2
LHCLOBND = 253.2      SURFTENS = 0.2620E-01      SFTNTEMP = 288.2      INTFTENS = 0.4000E-01(E)      INTFTIMP = 288.0 (E)
SOLUBPNT =          SOLUBTMP =          A = 0.2944E-01      B = 0.2400E-03      AVP = 11.38
8VP = 2864.      CVP = 0.4004E-01      VFUPRNO = 443.2      VPLWRB:D = 313.2      AVCP = 0.2453E+05
BVCP = 568.6      CVCP = -0.1717      OVCP = 0.0000E+00      VHCUPB:D = 600.0      VHCLOBNO = 250.0
HTFUSION =          LHTVAPOR = 0.4396E+06      HTCOMSTN = -0.3678E+08      HTDECCMP =          HTSOLUTN =
HTREACTN =          HTPOLYMR =          LOFLMLIN =          UPFLMLIN =          BURNRATE = 0.5333E-04
TOXINHAL =          INHALCNC =          INHALTME =          LOTOXLIM =          UPTOXLIM =
LAETOX =          ABFLMTMP =          MOLRATIO =          AIRFUEL =          FLMETEMP =
MOLFRAC =

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3
2
1

[illegible]

PATHCODE = A P C

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
HXXN  CHEMNAME = HEXANOL
      MOLECW = 102.2  NBP = 430.3  NFP = 228.6  PATHCODE = A  T  U
      OENSI = 850.0  DENSTEMP = 293.2  SHPSTATE=L  CRITTEMP = 610.2  CRITPRES = 0.3340E+07
      CRHO = 0.0000E+00  LOUPRBN = 373.2  LOLWPSNO = 273.2  LVLWPSNO = 273.2  LOVISPT = 0.4370E-03  LOVISTMP = 298.2
      AVIS = -16.85  8VIS = 2717.  LVUPRBN = 343.2  LVLWPSNO = 273.2  LOTHRCND = 0.1337
      LTHCNTMP = 293.2  ACON = 0.1508  BCON = -0.5815E-04  LTCUPBN = 373.2  LTCLOBNO = 253.2
      LOHTCPPT = 2139.  LOHTCPTM = 293.2  AHC = -683.6  BHC = 9.630  LHCUPBN = 393.2
      LHCL08NO = 253.2  SURFTENS = 0.2450E-01  SFTNIEMP = 293.2  INTFENS = 0.4000E-01(E)  INTFTTMP = 288.0  (E)
      SOLU8PNT =  SOLUBTMP =  A = 2.692  B = -0.7000E-02  AVP = 8.139  (E)
      8VP = 1377.  (E)  CVP = 0.0000E+00(E)  VFUPRBN = 433.0  (E)  VPLWRBN = 293.2  AVCP = 0.2286E+05
      BVCP = 489.2  CVCP = -0.1444  OVCP = 0.0000E+00  VHCUPBN = 600.0  VHCLOBNO = 250.0
      HTFUSIGN =  LHTVAPOR = 0.4857E+06  HTCONSTN = -0.3910E+08  HTOECOMP =  HTSOLUTN =
      HTREACTN =  HTPOLYMR =  LOFLALIM = 1.200  UPFLALIM = 7.700  8URNRATE =
      TOXINHAL =  INHALCNC =  INHALTME =  LOTXALIM = 0.5000E-03  UPTOXLIM = 0.5000E-02
      LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
HXX  CHEMNAME = HYDROGEN, LIQUEFIED      PATHCODE = A  B  C  D  E  F  G
MOLEWT = 2.000      NBP = 20.00      NFP = 14.00      CRITTEMP= 33.00      CRITPRES= 0.1300E+07
DENSITY = 71.00      OENSTEMP= 20.15      SHPSTATE=L      ARHO = 93.17      BRHO = -1.100
CRHO = 0.0000E+00      LDUPREND= 21.15      LDLWRBND= 18.15      LOVISPT= 0.1340E+04      LOVISTMP= 20.15
AVIS = -12.56      BVIS = 26.70      LVUPRBND= 23.15      LVLWRBND= 15.15      LOTRCND= 0.1163
LTHCNTMP= 20.15      ACON = 0.6990E-01      BCON = 0.2326E-02      LTCUPBND= 25.15      LTCLOBND= 19.15
LOHTCPT= 2386.      LOHTCPTM= 20.15      AHC = 2386.      ZHC = 0.0000E+00      LHCUPBND= 23.15
LHCLOBND= 18.15      SURFTENS= 0.2300E-01      SFTNTEMP= 18.15      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 7.480
BVP = 50.10      CVP = -0.1500      VFUPRBND= 23.15      VPLWRBND= 14.15      AVCP = 0.2931E+05
BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VFCUPBND= 400.0      VHCLBND= 250.0
HTFUSION=      LHTVAPOR= 0.4427E+06      HTCOMSTN= -0.1164E+09      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLPLIM= 4.000      UPFLMLIM= 75.00      BURNRATE= 0.1653E-03
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP= 2497.      (E) MOLRATIO= 1.500      (E) AIRFUEL = 34.32      (E) FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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IAA  CHEMNAME = ISOAMYL ALCOHOL
MOLEWT = 88.15      NBP = 405.0      CRITTEMP = 580.0      CRITPRES =
DENSITY = 810.0      DENSTEMP = 293.2      SHPSRATE=L      BRHO = -0.9000
CRHO = 0.0000E+00      LOUPRBN0 = 323.2      LDLPBND = 273.2      LQVISPT = 0.3860E-02      LQVISTMP = 297.0
AVIS = -14.69      BVIS = 2712.      LVUPRND = 303.2      LVLWRBND = 273.2      LQTHRCND = 0.1721
LTHCNTMP = 293.2      ACON = 0.1721      BCON = 0.0000E+00      LTCUPBND = 323.2      LTCLOBND = 273.2
LQHTCPPT = 2294.      LOHTCPTN = 293.2      AHC = -651.4      SHC = 10.05      LHCUPEND = 373.2
LHCLOBNO = 273.2      SURFTENS = 0.2380E-01      SFTNTMP = 293.2      INTFTENS = 0.5000E-02      INTFTIMP = 291.2
SOLUBPNT = 2.750      SOLUBTMP = 293.2      A = 12.12      AVP = 12.12
BVP = 2831.      CVP = 0.4004E-01      VFUPRBN0 = 373.2      VPLWRBND = 273.2      AVCP = 0.2090E+05(E
BVCP = 496.0      (E) CVCP = -0.2720      (E) OVCP = 0.0000E+00(E)      VHCUPBND = 600.0      (E) VHCLOBND = 300.0      (E
HTFUSION = 0.5016E+06      LHVAPOR = 0.3768E+08      HTCOWBTN = -0.3768E+08      HTOECOMP = 0.1327E+06
HTREACTN = -0.1327E+06      HTPOLYMR = 1.200      LOFLWLM = 9.000      UPFLWLM = 0.6000E-04
TOXINHAL = 100.0      INHALCNC = 0.5000E-03      LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
LAFETOX = 0.5000E-03      ABFLMTMP = 0.5000E-03      LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
MOLFRAC = 0.5000E-03      AIRFUEL = 0.5000E-03      FLMETEMP = 0.5000E-02

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

IAI CHEMNAME = ISODECYL ACRYLATE. INHIBITED

MOLEWT =	212.4	NBP	=	NBP	=	173.0	CRITTEMP=	CRITPRES=	
DENSITY =	885.0	DENSTEMP=		293.1	SHPS:ATE=L		APHO	=	1178. (E) BRHO = -1.000 (E)
CRHO	=	0.0000E+00(E)	LDUPREND=	298.1	LDLWREND=	273.1	LOVISRNT=	0.2320E-02	LOVISTMP= 293.1
AVIS	=	-14.40	8VIS	=	2450.	LVUPREND=	313.1	LVLWRBND=	273.1
LTHCNTMP=	293.1	ACON	=	0.1512 (E)	BCON	=	0.0000E+00(E)	LTCUPBND=	298.1
LQHTCPPT=	1926.	LQHTCPTN=		293.1	AHC	=	698.6 (E)	9HC	=
LHCLOBND=	273.1	SURFTENS=		0.3000E-01(E)	SFTNTMP=	293.1	INTFTENS=	0.3000E-01(E)	INTFTTMP= 293.1
SOLUBPNT=	0.1000E-01(E)	SOLUBTMP=		293.1	A	=	8	AVP	=
BVP	=	2200. (E)	CVP	=	-0.1500 (E)	VFUPREND=	443.1	VPLWRBND=	423.1
BVCP	=		CVCP	=		DVCP	=	VHCUPBND=	
HTFUSION=		LHTVAPOR=		0.2600E+06	HTCONSTN=	-0.3800E+08(E)	HTDECOMP=	HTSOLUTN=	
HTREACTN=		HTPOLYMR=		-0.2800E+06(E)	LOFLMLIM=		UPFLMLIM=	BURNRATE=	
TOXINHAL=		INHALCNC=			INHALTME=		LOTOXLIN=	0.5000E-02	UPTOXLIM= 0.1500E-01
LATETOX	=	ABFLMTMP=			MOLRATIO=		AIRFUEL	=	FLMETEMP=
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
IAL  CHEMNAME = ISOBUTYL ALCOHOL      PATHCODE = A  P  Q
MOLECWT = 74.12  NBP = 381.1  NFP = 165.0  CRITPRES= 0.4300E+07
DENSITY = 802.0  DENSTEMP= 293.2  SHPSSTATE=L  CRHO = 1022.  BRHO = -0.7500
CRHO = 0.0000E+00  LDUPREND= 323.2  LDLPREND= 273.2  LOVISPLT=  LOVISSTMP=
AVIS =  BVIS =  LVUPREND=  LVLRBND=  LOTHRCND=
LTHCNTMP=  ACON =  LTCUPBND=  LTCLOBND=
LOHTCPPT= 2315.  LOHTCPTM= 293.2  AHC = 596.9  EHC = 5.862  LHCUPBND= 333.2
LHCLGBND= 223.2  SURFTENS=  SFTNTMP=  INTFTTMP=
SOLUBPNT= 8.500  SOLUBTMP= 293.1  A =  B = 12.13  AVP =
BVP = 2670.  CVP = 0.4004E-01  VFUPREND= 343.2  VPLWRBND= 283.2  AVCP = 0.1926E+05
BVCP = 406.1  CVCP = -0.2219  DVCP = 0.4605E-04  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.5778E+06  HTCONSTN= -0.3308E+08  HTDECOMP=  HTSOLUTN= -0.2000E+05(E
HTREACTN=  HTPOLYMR=  LOFLMLIM= 1.600  UPFLMLIM= 10.90  BURNRATE= 0.5833E-04
TOXINHAL= 100.0  INHALCNC=  INHALTIME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =  FLMETEMP=

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PATHCODE = A P O R S

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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.....
IBA  CHEMNAME = ISOBUTYL ACETATE          PATHCODE = A  T  U
MOLECWT = 116.2      NBP = 360.5      CRITTEMP = 569.0      CRITPRES = 0.320CE+07
DENSITY = 871.0      OENSTEMP = 293.2      SMPSATE=L      BRHO = -1.040
CRHO = 0.0000E+00    LOUPREND = 313.2      IDLEHND = 273.2      LOVISTMP = 0.724CE 03      LOVISTMP = 293.2
AVIS = -11.57      BVIS = 12.1      LVUPHND = 373.2      LCLASHND = 273.2      LQTHRCND = 0.1500      (E)
LTHCNTMP = 293.0      (E) ACCN = 0.1500      (E) BCCN = 0.0000E+00      LCLASHND = 293.0      (E) LCLASHND = 273.0      (E)
LQTHCPPT = 1922      LQTHCPPT = 293.2      LQTHCPPT = 1112      LQTHCPPT = 273.2      LQTHCPPT = 343.2
LHCLOBND = 273.2      SURFTENS = 0.237CE-01      SFNENF = 293.2      INTRFTENS = 0.4000E 01      INTRFTMP = 293.0      (E)
SOLUBPNT = 0.5000      SOLUBPNT = 293.2      A = 8      B = 9 148
BVP = 1343.      CVP = -66.16      VLUPHND = 423.2      VPLASHND = 293.2      AVCP = 5987.
BVCP = 544.3      CVCP = 0.2470      OUCF = 0.0201E+04      VCLASHND = 600.0      VMLCASHND = 250.0
HTFUSION = LHTVAPOR = 0.3086E+06      HTCONDSTN = -0.3020E+08      HTCONDSTN = HTSOLU =
HTREACTN = HTPOLYMR = LCPFLVW = 2.400      LCPFLVW = 10.50      BURNRATE =
TOXINHAL = 150.0      INHALCNC = LPMALTIME = LQTHALTIME =
LATETOX = ABFLVTMP = MOLRATIO = AIRFUEL =
MOLFRAC =

```

PATHCODE = A B C D E F G

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

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IBN  CHEMNAME = ISOBUTYRONITRILE      PATHCODE = A  T  U  V  W
MOLEWT = 69.10      NBP = 377.D      NFP =      CRITTEMP=
DENSITY = 760.0      DENSTEMP= 293.1      SHPSSTATE=L      ARMO =      BRHO =
CRHO =      LDUPPBN=      LDWRSND=      LQVISPAT= 0.5510E-03      LQVISTMP= 288.1
AVIS = -11.33      BVIS = 1102.      LVUPRSD= 303.1      LVLWRBND= 283.1      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      BHC =      LHCUPBND=
LHCLOBND=      SURFTENS= 0.2490E-01      CFTNTEMP= 293.1      INTFTENS=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.82
BVP = 2194.      CVP = 0.5000E-01      VFUPRSD= 378.1      VPLWRBND= 323.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSIGN=      HTLVAPOR=      HTCOMSTN= -0.3700E+08(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTDXLIM= 0.500DE-04      UPTOXLIM= 0.1000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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CRITPRES= 0.4060E+07

0.40601

-1.551

293.1

0.1419

278-1

303.1

9 987

0.47708

0.43428

0.8000E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

I8T CHEMNAME = ISOBUTANE

PATHCODE = A B C D E F G

MOLECW = 58.12	NBP = 261.4	NFP = 17.90	CRITTEMP = 408.0	CRITPRES = 0.3650E+07
DENSITY = 557.0	DENSTEMP = 293.2	SHPS:ATE=L	ARHO = 880.5	BRHO = -1.100
CRHO = 0.0000E+00	LOUPRBND = 293.2	LDLWRBND = 223.2	LOVISPLT = 0.2350E-03	LQVISTMP = 263.2
AVIS = -11.18	BVIS = 749.0	LVUPRBND = 263.2	LVLWRBND = 223.2	LQTHRCND =
LTHCNTMP =	ACCN =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 2412.	LOHTCPTM = 293.2	AHC = 816.0	BHC = 5.443	LHCUPBND = 313.2
LHCLOBND = 253.2	SURFTENS = 0.1400E-01	SFTNIEMP = 263.2	INTFTES = 0.5000E-01(E)	INTFTTMP = 263.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 8.873
BVP = 882.8	CVP = -33.16	VFUPRBND = 298.2	VPLWRBND = 233.2	AVCP = 2470.
BVCP = 352.3	CVCP = -0.1193	OVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3663E+06	HTCOM:STN = -0.4526E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFL:LIN = 1.800	UPFL:LIN = 8.400	BURNRATE = 0.1550E-03
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO = 0.8333	(E) AIRFUEL = 15.35	(E) FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI. SYSTEM OF UNITS

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*****
IDA    CHEMNAME = 1500ECALDEHYDE          PATHCODE = A   T   U
MOLEWT = 156.3      NBP      =      CRITTEMP=
DENSITY =      OENSTMP=      SHPSTATE=      ARHO      =      CRITPRES=
CRHO      = 0.0000E+00(E) LOUPRNO= 293.0 (E) LOLWPSNO= 278.0 (E) LOVISPTI= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS      = -18.80 (E) BVIS      = 4000. (E) LVUPRNO= 298.0 (E) LVLWRB'D= 253.0 (E) LOTMRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON      = 0.1500 (E) BCON      = 0.0000E+00(E) LTCUPB'D= 298.0 (E) LTCLOBNO= 283.0 (E)
LOHTCPPT= 2000. (E) LOHTCPTM= 293.0 (E) AHC      = 2000. (E) EHC      = 0.0000E+00(E) LHCUPENO= 298.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.0 (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUSTMP=      A      =      B      =      AVP      = 9.702 (E)
BVP      = 2315. (E) CVP      = 0.0000E+00(E) VFUPRNO= 490.0 (E) VPLWPS'D= 350.0 (E) AVCP      = 0.4468E+05(E)
BVCP      = 889.0 (E) CVCP      = -0.4690 (E) DVCP      = 0.0000E+00(E) VHCUPSR'D= 600.0 (E) VHCLOBNO= 300.0 (E)
HTFUSION=      LHTVAPOR= 0.2800E+06(E) HTCO'STN= -0.4140E+08(E) HTOECONP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLW'LIM=      UPFLW'LIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLWTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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IHA  CHEMNAME = ISOCHEXANE
      MOLEWT = 86.18      NBP = 333.5      PATHCOOE = A T U V W
      DENSITY = 653.0      OENSTEMP= 293.2      CRITTEMP= 497.5      CRITPRES= 0.3010E+07
      CRHO = 0.0000E+00      LOUPREND= 353.2      LOVISPLT= 0.2840E-03      LOVISTMP= 293.2      BRHO = -1.0000
      AVIS = -10.23      BVIS = 605.0      LVLWRBND= 353.2      LVLWRBND= 233.2      LOTHRCNO= 0.1151
      LTHCNTMP= 293.2      ACCN = 0.2174      BCON = -0.3489E-03      LTCUPBND= 333.2      LTCLOBNO= 273.2
      LQHTCPPT= 2227.      LQHTCPTM= 293.2      AHC = 1245.      BHC = 3.349      LHCUPBND= 343.2
      LHCLOBND= 253.2      SUPFTENS= 0.1738E-01      SFTNTMP= 293.2      INTFTENS= 0.4000E-01(E)      INTFTMP= 293.0 (E)
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.964
      BVP = 1135.      CVP = -46.56      VFUPRND= 373.2      VPLWRBND= 253.2      AVCP = 8583.
      BVCP = 506.0      CVCP = -0.1696      OVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.3228E+06      HTCOMSTN= -0.4453E+08      HTOECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLWLM= 1.200      UPFLMLIN= 7.700      BURNRATE= 0.1367E-03
      TOXINHAL=      INHALCNC=      INHALTME=      LOTGXLM=      UPTOXLM=
      LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

IOA		CHEMNAME = ISOOCTYL ALCOHOL		PATHCODE = A T U	
MOLECW	= 130.2	NBP	= 459.0	NFP	= 373.0 (E) CRITTEMP=
DENSITY	= 832.0	DENSTEMP	= 293.2	SHPSIATE=L	ARHO = 1125. BRHO = -1.0000
CRHO	= 0.0000E+00	LOIPRND	= 303.2	LOLWRSNO=	283.2 LOVISPT= 0.1000E-01 LOVISIMP= 293.2
AVIS	=	8VIS	=	LVUPRND=	LOTHRCND= 0.1500 (E)
LTHCNTMP	= 293.0 (E) ACON	= 0.1500 (E) BCCN	= 0.0000E+00(E) LTCUPBND=	303.0 (E) LTCLOBND=	283.0 (E)
LQHTCPPT	= 3308.	LOHTCPTM	= 323.2	AHC	= BHC LHCUPBND=
LHCLOBND	=	SURFTENS	= 0.2950E-01	SFTNTEMP	= 293.2 INTFTENS= 0.4000E-01(E) INTFTIMP= 293.0 (E)
SOLUBPNT	= 0.7000E-01	SOLUBTMP	= 293.2	A	= B AVP = 11.30
8VP	= 2860.	CVP	= 0.4004E-01	VFUPRND=	473.2 VPLWRBND= 283.2 AVCP = 0.4130E+05(E)
8VCP	= 710.0 (E) CVCP	= -0.3690 (E) DVCP	= 0.0000E+00(E) VHCUPBND=	600.0 (E) VHCLOBND=	300.0 (E)
HTFUSION	=	LHTVAPOR	= 0.3200E+06(E) HTCOMSTN=	-0.4040E+08(E) HTOECOMP=	HTSOLUTN=
HTREACTN	=	HTPOLYMR	=	LOFLMLIM= 0.3000	UPFLMLIM= 5.700
TOXINHAL	=	INHALCNC	=	INHALTME=	LOTOXLIM= 0.5000E-03
LAFETOX	=	ABFLMTMP	=	MOLRATIO=	AIRFUEL =
MOLFRAC	=				FLMETEMP=
					UPTOXLIM= 0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
IQC  CHEMNAME = ISOOCYALDEHYDE      PATHCODE = A  T  U
MOLEWT = 128.2      NBP = 426.0      (E) NFP = 155.0      CRITTEMP=
DENSITY = 825.0      DENSTEMP= 293.2      SHPSSTATE=L      ARHO = 825.0      (E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E) LDUPRBND= 303.0      (E) LDLPBND= 283.0      (E) LOVISPT= 0.1100E-02      LOVISTMP= 293.2
AVIS = 0.1500      (E) BVIS = 0.1500      (E) LTHCNTMP= 293.0      (E) ACDN = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0      (E)
LOHTCPPT= 2000.      (E) LOHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0      (E)
LHCLOBND= 283.0      (E) SURFTENS= 0.2690E-01      SFTNTMP= 293.2      INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0      (E)
SOLUBPNT= 0.1130      (E) SOLUBTMP= 0.1130      (E) BVP = 2860.      (E) CVP = 0.0000E+00(E) VFUPBND= 303.0      (E) VPLWRBND= 278.0      (E) AVCP = 0.4130E+05(E
BVCP = 710.0      (E) CVCP = -0.3690      (E) DVCP = 0.0000E+00(E) VHCUPBND= 500.0      (E) VHCLOBND= 300.0      (E)
HTFUSIGN= 0.3200E+06(E) HTCCBNTN= -0.4000E+08(E) HTDECDMP=
HTREACTN= 0.3200E+06(E) HTCCBNTN= -0.4000E+08(E) HTDECDMP=
TOXINHAL= 0.3200E+06(E) HTCCBNTN= -0.4000E+08(E) HTDECDMP=
LATETOX = 0.3200E+06(E) HTCCBNTN= -0.4000E+08(E) HTDECDMP=
MOLFRAC = 0.3200E+06(E) HTCCBNTN= -0.4000E+08(E) HTDECDMP=
CRITPRES=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
IPA  CHEMNAME = ISOPROPYL ALCOHOL      PATHCODE = A  P  Q  R  S
MOLEWT = 60.10      NBP = 355.5      NFP = 184.7      CRITTEMP= 508.4      CRITPRES= 0.4760E+07
DENSITY = 785.0      OENSTEMP= 293.2      SHPSSTATE=L      ARHO = 1022      BRHO = -0.8100
CRHO = 0.0000E+00      LDUPRND= 303.2      LDLRBND= 273.2      LOVISPNT=      LOVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCNO=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPPT= 2512.      LOHTCPTM= 293.2      AHC = -670.8      BHC = 10.89      LHCUPBND= 303.2
LHCLOBND= 263.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.52
BVP = 1730.      CVP = -41.66      VFUPRND= 373.2      VPLWRBND= 273.2      AVCP = 0.1147E+05
BVCP = 281.8      CVCP = -0.7536E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION= 0.8792E+05      LHTVAPOR= 0.6857E+06      HTCORSTN= -0.3D15E+08      HTSOLUTN= -0.2000E+05/E
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.00D      HTDECOIP=      BURNRATE= 0.3833E-04
TOXINHAL= 400.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LARETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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IPC  CHEMNAME = ISOPROPYL PERCARBONATE          PATHCODE = II
MOLEWT = 206.2      NBP =      DENSTMP= 288.1      NFP = 282.0      (E) CRITTEMP=
DENSITY = 1080.      LDUPRND=      SHPSTATE=S      ARHC =
CRHO =      BVIS =      ACON =      LOHTCPTM=      SFTNTEMP=      INTFTENS=
AVIS =      LTHCNTMP=      LOHTCPPT=      SURFTENS=      A =      B =
LHCLOBND=      SOLUSPNT= 0.4000E-01      SOLUBTMP= 238.1      VPLWRBND=
BVP =      CVP =      CVCV =      LHTVAPOR=      HTCOVSTN= -0.1980E+08      HTDECOMP= -0.1550E+07
BVCV =      HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=
TOXINHAL=      INHALCNC=      ABFLMTMP=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      MOLFRAC =      MOLRATIO=      AIRFUEL =      FLMETEMP=
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
0.5000E-02
UPTOXLIM=
FLMETEMP=
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
IPE  CHEMNAME = ISOPROPYL ETHER      PATHCODE = A  P  O  T  U  V  W
MOLEWT = 102.2      NBP      = 342.0      CRITTEMP= 500.1      CRITPRES= 0.2880E+07
DENSITY = 724.0      OENSTMP= 293.1      SHPSRATE=L      ARHO      = 1046.      BRHO      = -1.100
CRHO      = 0.0000E+00      LDUPRND= 333.1      LOLWRBND= 273.1      LOVISPT= 0.8200E-03(E)      LOVISTMP= 293.1
AVIS      = -11.61      (E)      8VIS      = 1320.      (E)      LVUPRND= 298.1      LVLWRBND= 283.1      LQTHRCND= 0.1512
LTHCNTMP= 293.1      ALCON      = 0.1512      (E)      BCON      = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLOBNO= 278.1
LQHTCPT= 2119.      LQHTCPTM= 293.1      AHC      = 1137.      SHC      = 3.349      LHCUPBNO= 303.1
LHCLOBND= 253.1      SURFTENS= 0.2500E-01(E)      SFTNTMP= 293.1      INTFTENS= 0.3000E-01(E)      INTFTMP= 293.1
SOLUBPNT= 1.200      SOLUBTMP= 293.1      A      =      B      =      AVP      = 9.813
BVP      = 1644.      CVP      = -0.1500      VCUPRND= 343.1      VPLWRND= 273.1      AVCP      = -7392.      (E)
BVCP      = 644.5      (E)      CVCP      = -0.3975      (E)      OVCP      = 0.7469E-04(E)      VHCUPBND= 500.0      VHCLOBNO= 250.0
HTFUSION=      LHTVAPOR= 0.3100E+06      HTCOMBTN= -0.2700E+08(E)      HTOECON=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.400      UPFLMLIM= 7.900      BURNRATE= 0.8350E-04
TOXINHAL= 250.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX      =      ABFLMTMP=      MOLRATIO=      AIRFUEL      =
MOLFRAC      =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

IPH  CHEMNAME = ISOPHORONE
      PATHCODE = A P O T U
      MOLECW = 138.2 NBP = 488.5 NFP = 265.1 CRITTEMP=
      OENSITY = 923.0 DENSTEMP= 293.1 SHPSTATE=L ARHO = 1143. CRITPRES=
      CRHO = 0.0000E+00 LDUPRNO= 303.1 LOLWPSNO= 273.1 LQVISPT= 0.2600E-02 LQVISTMP= 293.1 BRHO = -0.7500
      AVIS = -13.80 (E) BVIS = 2300. (E) LVUPRND= 303.1 LVLWRSD= 283.1 LOTHRCND= 0.1512 (E) LQVISTMP= 293.1
      LTHCNTMP= 293.1 ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPRD= 298.1 LTCLOBND= 278.1 LHCUPBND= 303.1
      LOHTCPPT= 1800. LOHTCPTM= 288.1 AHC = 229.9 (E) BHC = 5.443 (E) INTFTIMP= INTFTIMP=
      LHCLOBND= 273.1 SURFTENS= 0.3230E-01 SFTNTIMP= 293.1 INTFTENS= AVP = 10.55
      SOLUBPNT= 1.200 SOLUBTMP= 293.1 A = 5.597 B = -0.1500E-01 AVCP = -0.4903E+05(E)
      BVP = 2674. CVP = -0.1500 VFUPRNO= 423.1 VPLWRSD= 333.1 VHCLOBND= 250.0
      BVCP = 956.7 (E) CVCP = -0.6315 (E) DVCP = 0.1560E-03(E) VHCUPBND= 500.0 HTSOLUTN=
      HTFUSIGN= LHTVAPOR= 0.3140E+06 HTCCNSTN= -0.3500E+08(E) HTDECCMP= BURNRATE= 0.6680E-04
      HTREACTN= HTPOLYMR= LOFLWLM= 0.8400 UPFLWLM= 3.800 LOTOXLIM= 0.5000E-02 UPTOXLIM= 0.1500E-01
      TOXINHAL= 10.00 INHALCNC= ABFLHTMP= MOLRATIO= AIRFUEL =
      LATETOX =
      MOLFRAC =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

IPL CHEMNAME = ISOPHTHALIC ACID

PATHCODE = II

MOLEWT = 166.0	NBP =	NFP = 618.0	CRITPRES =
DENSITY = 1540.	OENSTEMP = 298.1	SHPSSTATE = S	BRHO =
CRHO =	LOUPRENO =	LOLWREND =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	LHCUPBND =
LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VFUPRSNO =	AVCP =
BVCP =	CVCP =	OVCP =	VHCLOBNO =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.1940E+08	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.1500E-01
LAFETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN: SYSTEM OF UNITS

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IPM  CHEMNAME = ISOPROPYL MERCAPTAN      PATHCODE = A  P  Q  R  S

MOLEWT = 76.2D      NBP = 325.8      CRITPRES=
DENSITY = 814.0      DENSTEMP= 293.1      BRHO = -1.000
CRHO = 0.0000E+00      LDUPRBND= 303.1      LQVISTMP= 293.1
AVIS = -8.712      BVIS = 911.0      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E)      LTCLOBND= 253.1
LQHTCPPT= 1800.      LOHTCPTM= 293.1      LHCUPBND= 323.1
LHCLOBND= 173.1      SURFTENS= 0.2200E-01      INTFTTMP=
SOLUBPNT=          SOLUBTMP=          AVP = 9.805
8VP = 1563.      CVP = -0.1500      VPLWRBND= 278.1      AVCP = 0.3404E+05
8VCP = 209.3      CVCP = 0.0000E+00      VHCUPBND= 500.0      VHCLOBND= 300.0
HTFUSION=          LHTVAPOR= 0.383DE+06      HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLMLIM=
TOXINHAL=          INHALCNC=          INHALTIME=
LATETOX =          ABFLMTMP=          MOLRATIO=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
IPP    CHEMNAME = ISOPROPYLAMINE
      MOLEWT = 59.11      NBP = 305.6      PATHCODE = A P Q R S
      DENSITY = 690.0      OENSTMP = 288.1      NFP = 178.0      CRITTENP = 475.0      CRITPRES = 0.5100E+07
      CRHO = 0.0000E+00(E) LDUPRND = 303.1      SHPSTATE=L      ARHO = 978.2 (E) BRHO = -1.000 (E)
      AVIS =      BVIS =      LVUPRND =      LOLWRND = 278.1      LOVISPNT = 0.3600E-03      LQVISTMP = 298.1
      LTHCNTMP = 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND = 298.1      LTCLOBND = 283.1
      LQHTCPPT = 1842. (E) LOHTCPTN = 293.1      AHC = 1842. (E) BHC = 0.0000E+00(E) LHCUPBND = 298.1
      LHCLOBND = 283.1      SURFTENS = 0.1680E-01      SFTNTEMP = 293.1      INTFTENS =      INTFTTMP =
      SOLUBPNT =      SOLUSTMP =      A =      B =      AVP = 9.042
      BVP = 1055.      CVP = -44.15      VFUPRND = 335.1      VPLWRND = 220.1      AVCP = 7842.
      BVCP = 353.4      CVCP = -0.1609      DVCP = 0.1246E-04      VHCUPBND = 600.0      VHCLOBND = 250.0
      HTFUSION =      LHTVAPOR = 0.4480E+06      HTCOMBNTN = -0.3940E+08      HTDECOMP =      HTSOLUTN =
      HTREACTN =      HTPOLYMR =      LOFLWLM = 2.300      UPFLWLM = 12.00      BURNRATE = 0.1057E-03
      TOXINHAL = 5.000      INHALCNC =      INHALTME =      LOTXCLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
      LATETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
      MOLFRAC =

```

PATHCODE = A T U V W

IPR	CHEMNAME = ISOPRENE	PATHCODE = A T U V W							
	MOLEWT = 68.12	NBP = 307.3	NFP = 127.3	CRITTEMP= 484.3	CRITPRES= 0.3790E+07				
	DENSITY = 681.0	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 1032.	BRHO = -1.200				
	CRHO = 0.0000E+00	LDOUPRBD= 393.2	LDLWRSND= 253.2	LQVISPNT= 0.210DE-03	LQVISTMP= 293.2				
	AVIS = -11.29	BVIS = 827.0	LVUUPRBD= 303.2	LVLWRBND= 243.2	LQTHRCND= 0.1337				
	LTHCNTMP= 293.2	ACON = 0.2840	BCON = -0.5117E-03	LTCUPRBD= 333.2	LTCLOBND= 253.2				
	LOHTCPPT= 2232.	LOHTCPTM= 293.2	AHC = 1127.	BHC = 3.768	LHCUPRBD= 333.2				
	LHCLGBND= 253.2	SURFTENS= 0.1690E-01	SFINTEMP= 293.2	INTFTTENS= 0.400DE-Q1(E)	INTFTTMP= 293.0 (E				
	SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.028				
	BVP = 1081.	CVP = -38.46	VFUPRBD= 303.2	VPLWRBND= 213.2	AVCP = 1968.				
	BVCP = 397.7	CVCP = -0.2324	DVCP = 0.5275E-04	VHCUPRBD= 600.0	VHCLGBND= 250.0				
	HTFUSION=	LHTVAPOR= 0.3559E+06	HTCO'BTN= -0.4384E+08	HTDECAMP=	HTSOLUTN=				
	HTREACTN=	HTPOLYMR= -0.1160E+07	LOFL'ULIM= 2.000	UPFLMLIM= 9.000	BURNRATE= 0.1433E-03				
	TOXINHAL=	INHLCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=				
	LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=				
	MOLFRAC =								

***** PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS *****

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IPT  CHEMNAME = ISOPENTANE
      MOLECW = 72.15      NBP = 301.1      PATHCODE = A  T  U  V  W
      DENSITY = 620.0      DENSTEMP = 293.2      NFP = 113.3      CRITTEMP = 460.4      CRITPRES = 0.3380E+07
      CRHO = 0.0000E+00      LDUPRBN = 303.2      SHPSTATE = L      ARHO = 906.7      BRHO = -0.9800
      AVIS = -11.25      BVIS = 836.0      LDWRBN = 243.2      LDWRBN = 243.2      LQVISTMP = 293.2
      LTHCNTMP = 293.2      ACON = 0.2303      LVUPRBN = 293.2      LVLWRBN = 243.2      LQTHRCND = 0.1076
      LQHTCPPT = 2261.      LQHTCPTM = 293.2      8CON = -0.4187E-03      LTCUPBN = 323.2      LTCLO8ND = 293.2
      LHCLOBND = 253.2      SURFTENS = 0.1605E-01      AHC = 1033.      INTFTENS = 0.4000E-01(E)      INFTTMP = 293.0      (E
      SOLUBTMP = 293.2      A = 1033.      SFTNTEMP = 293.2      B = 8.915      AVP = 2973.
      BVP = 1020.      CVP = -40.06      VFUPRBN = 323.2      VPLWRBN = 253.2      AVCP = 250.0
      BVCP = 432.5      CVCP = -0.1465      DVCP = 0.0000E+00      VHCUPBN = 600.0      VHCLOBND = 250.0
      HTFUSION = 0.3391E+06      HTVAPOR = 0.4492E+08      HTCOMBTN = -0.4492E+08      HTSOLUTN = 0.1233E-03
      HTREACTN = 1.400      LOFLMLIM = 8.300      UPFLMLIM = 0.5000E-02      BURNRATE = 0.1500E-01
      TOXINHAL = 0.5000E-02      INHALTME = 0.5000E-02      LOTXCLIM = 0.5000E-02      UPTOXLIM = 0.1500E-01
      LATETOX = 0.5000E-02      ABFLMTMP = 0.5000E-02      AIRFUEL = 0.5000E-02      FLMETEMP = 0.5000E-02
      MOLFRAC = 0.5000E-02
  
```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ISA  CHEMNAME = ISOOECYL ALCOHOL          PATHCODE = A   T   U
MOLECWT = 158.3      NBP      = 493.0      NFP      = 333.0      (E) CRITTEMP=
DENSITY = 841.0      DENSTEMP= 293.2      SHPSSTATE=L      ARHO      = 1134.      CRITPPES=
CRHO      = 0.0000E+00      LOUPREND= 303.2      (E) LOUPRSND= 273.2      LOVISPI.T= 0.5800E-02(E) LOVISTMP= 293.0      (E
AVIS      = -18.80      (E) 8VIS      = 4000.      (E) LVUPRSND= 298.0      (E) LVLWRSND= 283.0      (E) LQTHRCND= 0.1500      (E
LTHCNTMP= 293.0      (E) ACON      = 0.1500      (E) BCON      = 0.0000E+00(E) LTCUPBND= 298.0      (E) LTCLOBND= 283.0      (E
LQHTCPPT= 2000.      (E) LOHTCPTM= 293.0      (E) AHC      = 2000.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 298.0      (E
LHCLOBND= 283.0      (E) SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.0      (E) INTFTENS= 0.4000E-01(E) INTFTIMP= 293.0      (E
SOLUBPNT= 0.1000E-01(E) SOLUBTMP= 293.2      A      = 8      = 9.702      (E
8VP      = 2315.      (E) CVP      = 0.0000E+00(E) VFUPRSND= 490.0      (E) VPLKRBND= 350.0      (E) AVCP      = 0.4468E+05(E
8VCP      = 889.0      (E) CVCP      = -0.4690      (E) OVCP      = 0.0000E+00(E) VHCUPBND= 600.0      (E) VHCLOBND= 300.0      (E
HTFUSION=      LHTVAPOR= 0.2800E+06(E) HTCOMSTN= -0.4140E+08(E) HTDECONP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIN=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTCX LIM=      UPTOX LIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
IVA  CHEMNAME = ISOVALERALOEHYOE      PATHCODE = A   T   U   V   W
      MLECW = 86.10      NBP = 365.7      CRITTEMP =
      DENSITY = 785.0      DENSTEMP = 293.1      SHPS:ATE=L      ARHO = 1313.
      CPHO = 0.0000E+00      LDUPRND = 313.1      LOLWRBNO = 273.1      LQVISPAT = 0.5600E-03      LQVISTMP = 293.1
      AVIS = 11.30      BVIS = 1115.      LVUPRND = 365.1      LVLWRBND = 273.1      LOTHRCOND = 0.1512      (E
      LTHCNTMP = 293.1      ACCN = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND = 303.1      LTCUGBND = 283.1
      LOHTCPPT = 1884.      (E) LOHTCPTM = 293.1      AHC = 656.7      (E) BHC = 4.187      (E) LHCUPBND = 303.1
      LHCLOBNO = 273.1      SURFTENS = 0.3000E-01(E)      SFTNTMP = 293.1      INTFTERS = 0.3000E-01(E)      INTFTTMP = 293.1
      SOLUBPNT =          A =          B =          AVP = 9.791      (E
      BVP = 1750.      (E) CVP = -0.1500      (E) VFUPRND = 368.1      VPLWRBND = 353.1      AVCP = 6692.      (E
      BVCP = 451.4      (E) CVCP = -0.2137      (E) OVCP = 0.2471E-04(E)      VHCUPBND = 500.0      VHCLOBND = 250.0
      HTFUSION =          LHTVAPOR = 0.3900E+06(E)      HTCONSTN = -0.3600E+08      HTSOLUTN =
      HTREACTN =          HTPOLYMR =          LOFLMLIM =          LPEFLNLM =          BURNRATE = 0.8851E-04
      TOXINHAL =          INHALCNC =          INHALTME =          LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
      LATETOX =          ABFLMTMP =          MOLRATIO =          AIRFUEL =          FLMETEMP =
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

JPF CHEMNAME = JET FUEL: JP-4

PATHCODE = A T U

MOLEWT =	NBP =	449.0	(E) NFP =	225.0	(E) CRITTEMP =	CRITPRES =
DENSITY =	810.0	DENSTEMP =	293.2	SHPS:ATE=L	ARHO =	8RHO = -1.0000
CRHO =	0.0000E+00	LDUPREND =	303.2	LDLWPSND =	273.2	LQVISTMP = 293.2
AVIS =	-10.87	8VIS =	1110.	LVUPPSND =	298.2	LQTHRCND = 0.1314
LTHCNTMP =	293.2	ACON =	0.1469	8CON =	-0.5233E-04	LTCLOBND = 253.2
LQHTCPPT =	2010.	LQHTCPTM =	293.2	AHC =	896.6	LHCUP8ND = 373.2
LHCLOBND =	253.2	SURFTENS =	0.2500E-01(E)	SFTNTEMP =	293.0	INTFTTMP = 293.0 (E)
SOLUBPNT =		SOLUBTMP =	A =	A =	B =	AVP = 8.515
8VP =	1320.	CVP =	-0.1599	VFUPPSND =	373.2	AVCP = 0.1700E+05(E)
BVCP =	1073.	(E) CVCP =	-0.5720	(E) DVCP =	0.1200E-03(E)	VHCLOBND = 300.0 (E)
HTFUSION =		LHTVAPOR =	0.3266E+06	HTCOWSTN =	-0.4312E+08	HTSOLUTN =
HTREACTN =		HTPOLYMR =		LOFLW'LIM =	1.300	BURNRATE = 0.6667E-04
TOXINHAL =	200.0	INHALCNC =		INHALTME =		UPTOXLIM = 0.5000E-02
LAFETOX =		ABFLMTMP =		MOLRATIO =		FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

JPO  CHEMNAME = JET FUEL: JP-1(KEROSENE)      PATHCODE = A  T  U
MOLEWT =      NBP =      473.0  (E)  NFP =      286.0  CRITTEMP=
DENSITY =      800.0  DENSTEMP=      288.2  SHPSSTATE=L  ARHO =      1088.  BRHO =      -1.0000
CRHO =      0.0000E+00  LDUPPBNO=      303.2  LOLWRSNO=      273.2  LQVISPT=      0.1200E-02  LQVISTMP=      293.2
AVIS =      -13.90  BVIS =      2100.  LVUPRSND=      298.2  LVLWRBND=      233.2  LQTHRCND=      0.1314
LTHCNTMP=      293.2  ACON =      0.1469  8CON =      -0.5233E-04  LTCUPBND=      373.2  LTCLOBNO=      253.2
LQHTCPPT=      1968.  LOHTCPTM=      293.2  AHC =      854.8  BHC =      3.768  LHCUPBND=      373.2
LHCLOBND=      253.2  SURFTENS=      0.2750E-01(E)  SFTNTMP=      293.2  INTFTENS=      0.4800E-01(E)  INTFTMP=      293.2
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =      9.515
BVP =      2076.  CVP =      -0.1599  VUPRSNO=      423.2  VPLWRBND=      293.2  AVCP =      0.1700E+05(E)
BVCP =      1073.  (E)  CVCP =      -0.5720  (E)  DVCP =      0.1200E-03(E)  VHCUPBND=      600.0  (E)  VHCLOBND=      300.0  (E)
HTFUSIGN=      LHTVAPOR=      0.2512E+06  HTCOMBTN=      -0.4312E+08  HTOECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      0.7000  UPFLMLIM=      5.000  BURNRATE=      0.6667E-04
TOXINHAL=      200.0  INHALCNC=      INHALIME=      LOTOXLIM=      0.5000E-02  UPTOXLIM=      0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
JPT  CHEMNAME = JET FUEL: JP-3          PATHCODE = A  T  U
MOLECWT =      NBP      = 303.0  (E)  NFP      =      CRITTEMP=      CRITPRES=
DENSITY = 800.0  OENSTMP= 293.2          SHPSTATE=L      ARHO      = 800.0  (E)  BRHO      = 0.0000E+00(E
CRHO      = 0.0000E+00(E) LDUPRBND= 303.0  (E)  LOLWRBND= 273.0  (E)  LQVISPNT= 0.8400E-03  LQVISTMP= 293.2
AVIS      = -10.87  BVIS      = 1110.  LVUPRBND= 298.2          LVLWRBND= 233.2  LQTHRCND= 0.2082
LTHCNTMP= 293.2  ACON      = 0.2236  BCON      = -0.5233E-04  LTCUPBND= 373.2  LTCLOBND= 253.2
LQHTCPPT= 2010.  LQHTCPTM= 293.2  AHC      = 896.6  BHC      =      LHCUPBND= 373.2
LHCLOBND= 253.2  SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0  (E)  INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0  (E
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 8.747
BVP      = 1270.  CVP      = -0.1599  VFUPRBND= 373.2          VPLWRBND= 253.2  AVCP      = 0.1700E+05(E
BVCP      = 1073.  (E)  CVCP      = -0.5720  (E)  DVCP      = 0.1200E-03(E)  VHCUPBND= 600.0  (E)  VHCLOBND= 300.0  (E
HTFUSIGN=      LHTVAPOR= 0.3266E+06  HTCOMSTN= -0.4312E+08  HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE= 0.6667E-04
TOXINHAL= 200.0  INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

JPV	CHEMNAME =	JET FUEL: JP-5(KEROSENE, HEAVY)	PATHCODE =	A	T	U	
	MOLECW =	NBP =	449.0	(E)	NFP =	225.0	(E)
	DENSITY =	820.0	DENSTMP =	288.2	SHPSATE=L		CRITPRES =
	CRHO =	0.0000E+00	LDUPRND =	303.2	LDLWRBND =	273.2	QVISTMP =
	AVIS =	-12.95	BVIS =	1982.	LVUPRND =	298.2	QTHRCND =
	LTHCNTMP =	293.2	ACON =	0.1469	BCON =	-0.5233E-04	LTCLOBND =
	LQHTCPPT =	2010.	LQHTCPTM =	293.2	AHC =	896.6	LHCUPBND =
	LHCLOBND =	253.2	SURFTENS =	0.2500E-01(E)	SFTNTMP =	293.0	INTFTMP =
	SOLUBPNT =		SOLUBTMP =		A =		AVP =
	BVP =	2150.	CVP =	-0.1599	VFUPRND =	423.2	AVCP =
	BVCP =		CVCP =		DVCP =		VHCLOBND =
	HTFUSION =		LHTVAPOR =	0.3266E+06	HTCOYSTN =	-0.4312E+08	HTSOLUTN =
	HTREACTN =		HTPOLYMR =		LOFLCLIM =	0.6000	BURNRATE =
	TOXINHAL =	200.0	INHALCNC =		INHALTME =		UPTOXLIM =
	LAFETOX =		ABFLMTMP =		MOLRATIO =		FLMETEMP =
	MOLFRAC =						

(E)

MOLECWT =	379.3	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	2550.	DENSTEMP=	293.1	SHPSRATE=S	BRHO =
CRHO =		LDUPRND=	LDLWRBND=	LOVISPT=	LOVISTMP=
AVIS =		BVIS =	LVUPRND=	LVLRBND=	LOTHRCND=
LTHCNTMP=		ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=		LOHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	44.30	SOLUBTMP=	293.1	A = -316.3	AVP =
BVP =		CVP =	VFUPRND=	VPLWRBND=	AVCP =
BVCP =		CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	LOFLMLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL=	0.1200E-01	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAETOX =		ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
LAH  CHEMNAME = LITHIUM ALUMINUM HYDRIDE          PATHCODE = RR  C
MOLECW = 37.94      NBP =      SHPSTATE=S      NFP =      CRITTEMP=
DENSITY = 917.0      DENSTEMP= 288.2      SHPSTATE=S      ARHO =      BRHO =
CRHO =      LDUPRND=      LDUPRND=      LDUPRND=      LOVISPT=      LOVISPT=
AVIS =      8VIS =      8VIS =      LVUPRND=      LVUPRND=      LVUPRND=      LOTHRND=
LTHCNTMP=      ACON =      ACON =      LTCUPBND=      LTCUPBND=      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      LQHTCPTM=      AHC =      BHC =      BHC =      LHCUPBND=
LHCLOBND=      SURFTENS=      SURFTENS=      SFTNTMP=      SFTNTMP=      SFTNTMP=      INTFTIMP=
SOLUBPAT=      SOLUBTMP=      SOLUBTMP=      A =      B =      B =      AVP =
BVP =      CVP =      CVP =      VFUPRND=      VFUPRND=      VFUPRND=      AVCP =
BVCP =      CVCP =      CVCP =      DVCP =      DVCP =      DVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR=      LHTVAPOR=      HTCON:STN=      HTCON:STN=      HTCON:STN=      VHCLOBND=
HTREACTN= -0.1821E+08      HTPOLYMR= -0.1821E+08      LOFLMLIM=      LOFLMLIM=      LOFLMLIM=      HTSOLUTN=
TOXINHAL=      INHALCNC=      INHALCNC=      INHALCNC=      INHALCNC=      INHALCNC=      BURNRATE=
LAFETOX =      ABFLMTMP=      ABFLMTMP=      MOLRATIO=      MOLRATIO=      MOLRATIO=      UPTOXLIM=
MOLFRAC =      MOLFRAC =      MOLFRAC =      MOLRATIO=      MOLRATIO=      MOLRATIO=      FLMETEMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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LAL  CHEMNAME = LINEAR ALCOHOLS (12-15 CARBONS)      PATHCODE = A  T  U
MOLEWT = 186.0 (E) NBP = 525.0 (E) NFP = 292.0 (E) CRITTEMP =
DENSITY = 840.0 OENSTEMP = 293.2 SHPSTATE=L          ARHO = 840.0 (E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E) LOUPRNO = 303.0 (E) LDLWRBND = 293.0 (E) LOVISPA,T = 0.3700E-02(E) LOVISIMP = 303.0 (E
AVIS = -18.80 (E) BVIS = 4000. (E) LVLPBND = 313.0 (E) LVLWRBND = 303.0 (E) LQTHPCND = 0.1500 (E
LTHCNTWP = 303.0 (E) ACCN = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND = 313.0 (E) LTCLOBND = 303.0 (E
LQHTCPPT = 2200. (E) LQHTCPTM = 303.0 (E) AHC = 2200. (E) BHC = 0.0000E+00(E) LHCUPBNO = 313.0 (E
LHCLOBNO = 303.0 (E) SURFTENS = 0.3000E-01(E) SFTNTEMP = 303.0 (E) INTFTENS = 0.3000E-01(E) INTFTIMP = 303.0 (E
SOLUBPNT = SOLUBTMP = A = S = AVP = 9.790 (E
BVP = 2630. (E) CVP = 0.0000E+00(E) VFUPBND = 313.0 (E) VPLWRBND = 303.0 (E) AVCP =
BVCP = CVCP = DVCP = VHCUPBND = VHCLOBNO =
HTFUSION = LHVAPOR = HTCO:STN = -0.4290E+08(E) HTOECOMP = HTSOLUTN =
HTREACTN = HTPOLYMR = LOFLMLIM = UPFLMLIM = BURNRATE =
TOXINHAL = INHALCNC = INHALTME = LOTOXLM = UPTOXLM = 0.1500E-01
LATETOX = ABFLMIMP = MOLRATIO = AIRFUEL = FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

LAR    CHEMNAME = LEAD ARSENATE
MOLEWT = 347.1      NBP =      CRITPRES=
DENSITY = 5790.      DENSTEMP= 2BB.2  SHPSTATE=S  CRITTEMP=
CRHO =      LDUPREND=      BVIS =      ACON =      LOHTCPTM=      SURFTENS=      SOLUBPNT=      BVP =      BVCP =      HTFUSION=      HTREACTN=
AVIS =      LTHCNTMP=      LOHTCPPT=      LHCLOBND=      SOLUBPNT=      BVP =      BVCP =      HTFUSION=      HTREACTN=
LTHCNTMP=      LOHTCPPT=      LHCLOBND=      SOLUBPNT=      BVP =      BVCP =      HTFUSION=      HTREACTN=
LOHTCPPT=      LHCLOBND=      SOLUBPNT=      BVP =      BVCP =      HTFUSION=      HTREACTN=
LHCLOBND=      SOLUBPNT=      BVP =      BVCP =      HTFUSION=      HTREACTN=
SOLUBPNT=      BVP =      BVCP =      HTFUSION=      HTREACTN=
BVP =      BVCP =      HTFUSION=      HTREACTN=
BVCP =      HTFUSION=      HTREACTN=
HTFUSION=      HTREACTN=
HTREACTN=      TOXINHAL=      LATETOX =      MOLFRAC =
TOXINHAL=      LATETOX =      MOLFRAC =
0.9700E-02      ABFLMTMP=
0.9700E-02      ABFLMTMP=
0.5000E-04(E)  UPTOXLIM=
0.5000E-04(E)  UPTOXLIM=
AIRFUEL =
FLMETEMP=

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PATHCODE = II

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
LFB  CHEMNAME = LEO FLUOROBORATE          PATHCODE = A  P
MOLEWT =          NBP =          CRITTEMP=
DENSITY = 1750.  DENSTEMP= 293.1  CRITPRES=
CRHO =          LDUPRBN=          BRHO =
AVIS =          BVIS =          LOVISIMP=
LTHCNTMP=        ACON =          LQTHRCND=
LOHTCPPT=        LOHTCPTM=        LTCLOBND=
LHCLOBNO=        SURFTENS=        LHCUPBND=
SOLUBPNT=        SOLUBTMP=        INTFTTMP=
BVP =          CVP =          AVP =
BVCP =          CVCP =          AVCP =
HTFUSICN=        LHTVAPOR=        VHCLOBND=
HTREACTN=        HTPOLYMR=        HTSOLUTN=
TOXINHAL=        INHALCNQ=        BURNRATE=
LAFETOX =        ABFLTMP=        UPTOXLIM= 0.500DE-03  0.500DE-02
MOLFRAC =        MOLRATIO=        FLMETEMP=
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LFR		CHEMNAME = LEAD FLUORIDE		PATHCODE = II	
MOLEWT =	245.2	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY =	B240.	OENSTMP =	293.1	SHPSATE = S	BRHO =
CRHO =		LDUPRBN =	LDLWRBN =	LOVISPR =	LOVISIMP =
AVIS =		BVIS =	LVUPRBN =	LVLWRBN =	LOTHRCND =
LTHCNTMP =		ACON =	BCON =	LTCUPBN =	LTCLOBND =
LQHTCPPT =		LQHTCPTM =	AHC =	SHC =	LHCUPBN =
LHCLOBNO =		SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT =	0.6400E-01	SOLUBTMP =	293.1	A =	0.0000E+00
BVP =		CVP =	VFUPRBN =	VPLWRBN =	AVCP =
BVCP =		CVCP =	OVCP =	VHCUPBN =	VHCLOBNO =
HTFUSIGN =		LHTVAPOR =	HTCOWBN =	HTDECOBP =	HTSOLUTN =
HTREACTN =		HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	0.1370E-01	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =		ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LHD CHEMNAME = LITHIUM HYDRIDE

PATHCODE = RR

MOLEWT = 7.950	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 780.0	DENSTEMP= 293.1	SHPSSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWDBND=	LOVISPAT=	LOVISTMP=
AVIS =	BVIS =	LVUPRSND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRSND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN= -0.1700E+08
HTREACTN=	HTPOLYMR=	LOFLW/LIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.7050E-01	INHALCNC=	INHALTIME=	LOTOXLIM=	UPTOXLIM=
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

LID CHEMNAME = LEAD IODIDE

PATHCODE = II

MOLEWT =	461.0	NBP =		CRITTEMP =		CRITPRES =	
DENSITY =	6160.	DENSTEMP =	293.1	SHPSTATE = S		BRHO =	
CRHO =		LDUPRBN =		LDLWRBN =		LQVISTMP =	
AVIS =		BVIS =		LVUPRBN =		LQTHRCND =	
LTHCNTMP =		ACON =		BCON =		LTCLOBND =	
LOHTCPT =		LOHTCPTM =		AHC =		LHCUPBND =	
LHCLOBND =		SURFTENS =		SFTNTEMP =		INTFTTMP =	
SOLUBPNT =	0.7600E-01	SOLUBTMP =	298.1	A =	-0.3111	AVP =	
BVP =		CVP =		VFUPRBN =		AVCP =	
BVCP =		CVCP =		DVCP =		VHCLOBND =	
HTFUSION =		LHTVAPOR =		HTCOMBTN =		HTSOLUTN =	
HTREACTN =		HTPOLYMR =		LOFLMLIM =		BURNRATE =	
TOXINHAL =	0.9700E-02	INHALCNC =		INHALTME =		UPTOXLIM =	0.5000E-02
LARETOX =		ABFLMTMP =		MOLRATIO =		FLMETEMP =	
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LLS
CHENNAME = LATEX. LIQUIO SYNTHETIC

PATHCOOE = A P

MOLEWT =	NBP	=	NBP	=	NFP	=	CRITTEMP=	CRITPRES=							
DENSITY =	960.0	(E)	DENSTEMP=	293.2	SHPSIATE=L	ARHO	=	1000.	(E)	BRHO	=	0.0000E+00(E)			
CPHO	=	0.0000E+00(E)	LDUPRBN=	293.0	(E)	LDLWRBN=	278.0	(E)	LQVISPT=	LQVISTMP=					
AVIS	=	BVIS	=	LVUPRBN=	LVLRBND=	LQTHRCNO=									
LTHCNTMP=	ACCN	=	BCON	=	LTCUPBND=	LTCLOBND=									
LQHTCPT=	2000.	(E)	LQHTCPTM=	293.0	(E)	AHC	=	2000.	(E)	BHC	=	0.0000E+00(E)	LHCUPBNO=	303.0	(E)
LHCLOBND=	278.0	(E)	SURFTENS=	SFTNTEMP=	INTFENS=	INTFTTMP=									
SOLUBNT=	SOLUBTMP=	A	=	B	=	AVP	=								
BVP	=	CVP	=	VFUPRBN=	VPLWRBN=	AVCP	=								
BVCP	=	CVCP	=	OVCP	=	VHCUPBN=	VHCLOBND=								
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTSOLUTN=												
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=												
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=												
LATETOX	=	ABFLWTMP=	MOLRATIO=	AIRFUEL	=	FLMETEMP=									
MOLFRAC	=														

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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LNG  CHEMNAME = LIQUEFIED NATURAL GAS (LNG)      PATHCODE = A  B  C  D  E  F  G
MOLEWT = 17.00 (E) NBP = 112.0      NBP = 91.00      CRITTEMP= 191.0      CRITPRES= 0.4640E+07
DENSITY = 415.0 (E) DENSTEMP= 111.2      SHPSTATE=L      ARHO = 580.4      BRHO = -1.400
CRHO = 0.0000E+00      LDUPRBND= 123.2      LDWRBND= 93.16      LOVISBND= 0.1350E-03      LOVISTMP= 113.2
AVIS = -12.71      BVIS = 430.0      LVUPRBND= 153.2      LVLWRBND= 93.16      LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPT= 3517.      LOHTCPTM= 113.2      AHC = 2491.      BHC = 9.211      LHCUPBND= 143.2
LHCLOBND= 93.16      SURFTENS= 0.1400E-01      SFTNTEMP= 112.2      INTFTS= 0.5000E-01(E)      INTFTTMP= 112.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.737
BVP = 389.9      CVP = -7.160      VFUPRBND= 123.2      VPLWRBND= 93.16      AVCP = 0.2504E+05
BVCP = 25.33      CVCP = 0.3559E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.5100E+06(E)      HTCOBND= -0.5443E+08(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 5.300      UPFLMLIM= 14.00      BURNRATE= 0.2083E-03
TOXINHAL=      INHALCNC=      INHALTVE=      LOTOXLM=      UPTOXLM=
LARETOX =      ABFLMTMP= 2339      (E) MOLRATIO= 1.000      (E) AIRFUEL = 17.16      (E) FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

LPG  CHEMNAME = LIQUEFIED PETROLEUM GAS (LPG)  PATHCODE = A  B  C  D  E  F  G
MOLEWT = 44.00 (E) NBP = 233.0 (E) NFP =  SHPSIATE=L  CRITTEMP= 176.5 CRITPRES= 0.4249E+07
DENSITY = 510.0 (E) DENSTEMP= 223.2  SHPSIATE=L  CRHO = 835.5 BRHO = -1.100
CRHO = 0.0000E+00 LDUPRND= 233.2 LDUPRND= 153.2 LOVISPTI= 0.2050E+03 LOVISTMP= 233.2
AVIS = -10.75 BVIS = 525.0 LVUPRND= 233.2 LVLWRBND= 173.2 LOTHRCND=
LTHCNTMP= ACON = LOHTCPTM= 2973. LOHTCPTM= 293.2 AHC = -95.88 LHCUPBND= 323.2
LHCLOBND= 223.2 SURFTENS= 0.1600E-01 SFNTTEMP= 226.2 INTFTENS= 0.5000E-01(E) INTFTTMP= 235.0 (E)
SOLUBPNT= SOLUBTMP= A = VFUPRND= 247.2 VFLWRBND= 123.2 AVP = 8.955
BVP = 313.2 CVP = -25.16 DVCN = 0.0000E+00 VHCUPBND= 250.0
BVCN = 253.0 CVCN = -0.7536E-01 HTCOMSTN= -0.4601E+08 HTSOLUTN=
HTFUSION= LHTVAFJR= 0.4252E+06 LHTVAFJR= 0.400 BURNRATE= 0.1367E-03
HTREACTN= HTPOLYMR= LOFLMLIM= 1.800 LPFLYLIN= UPTOXLIM=
TOXINHAL= 1000. INHALCNC= INHALTIME= LOTOXLIN=
LATETOX = ABFLMTMP= 2419. (E) MOLRATIO= 1.000 (E) AIRFUEL = 17.15 (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
LPO  CHEMNAME = LAUROYL PEROXIDE          PATHCODE = II Z
      MOLEWT = 399.0      NBP =          NFP = 327.0      CRITTEMP=
      DENSITY = 910.0      OENSTEMP= 298.1      SHPS/ATE=S      ARHO =
      CRHO =          LDUPRBND=          LDWRBND=          LQVISPT=
      AVIS =          BVIS =          LVUPRND=          LVLWRBND=
      LTHCNTMP=          ACON =          BHC =          LTCLOBND=
      LQHTCPPT=          LQHTCPTM=          SFTNTEMP=          INTFTENS=
      LHCLOBND=          SURFTENS=          SFTNTEMP=          INTFTEMP=
      SOLUBPNT=          SOLUBTMP=          A =          B =
      BVP =          CVP =          VFUPRND=          VPLWRBND=
      BVCP =          CVCP =          DVCP =          VHCUPBND=
      HTFUSION=          LHTVAPOR=          HTCOMSTN= -0.3800E+08(E) HTDECOMP=
      HTREACTN=          HTPOLYMR=          LOFLMLIM=          LPFLMLIM=
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
      MOLFRAC =

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```

      CRITPRES=
      BRHO =
      LQVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCF =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLM=
      FLWETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

LRM  CHEMNAME = LAURYL MERCAPTAN          PATHCODE = A  T  U
MOLEWT = 202.0      NBP = 266.2      CRITTEMP=
DENSITY = 850.0      OENSTEMP= 282.2      SHPSTATE=L      ARHO = 1095.      CRITPRES=
CRHO = 0.0000E+00      LDUPRBD= 293.2      LDLWPSND= 283.2      LOVISPT= 0.3000E-02      LQVISTMP= 293.2
AVIS = -12.28      BVIS = 1900.      LVUPPSND= 373.2      LVLWRBD= 283.2      LOTHRCND= 0.1500      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0      (E) LTCLOBND= 283.0      (E)
LOHTCPPT= 2200.      (E) LOHTCPTM= 293.0      (E) AHC = 2200.      (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0      (E)
LHCLOBND= 283.0      (E) SURFTENS= 0.3000E-01(E) SFTNTMP= 293.0      (E) INTFTENS= 0.3000E-01(E) INTFTTMP= 293.0      (E)
SOLUBPNT= SOLUBTMP= A = B = AVP = 9.790      (E)
BVP = 2630.      (E) CVP = 0.0000E+00(E) VFUPRBD= 303.0      (E) VPLWRBD= 283.0      (E) AVCP =
BVCP = CVCP = OVCP = VHCUPBND=
HTFUSION= LHTVAPOR= 0.2500E+06(E) HTCOMBTN= -0.4220E+08(E) HTDECOMP= VHCLOBND=
HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= HTSOLUTN=
TOXINHAL= INHALCNC= INHALTME= LOTOXLIM= BURNRATE=
LATETOX = ABFLMTMP= MOLRATIO= UPTOXLIM=
MOLFRAC = FMETEMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LTA	CHEMNAME = LACTIC ACIO	PATHCODE = A	P
MOLEWT =	50.00	NBP =	
DENSITY =	1200.	OENSTMP =	293.1
CRHO =	0.0000E+00(E)	LDUPRND =	298.1
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =	2319.	LQHTCPTM =	290.1
LHCLOBND =	283.1	SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHLCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	
		SHPSTATE=L	
		LDLWRBND =	283.1
		LVUPRBN0 =	
		BCON =	
		AHC =	1227.
		SFTNTMP =	
		A =	
		VPUPRBN0 =	
		DVCP =	
		HTCOMBTN =	-0.1520E+08
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	1493.
		LOVISPLT =	0.4050E-01
		LVLWRBND =	
		LTCUPBND =	
		BHC =	3.768
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTSOLUTN =	
		BURNRATE =	
		LOTOXLIM =	0.5000E-03
		AIRFUEL =	
		CRITPRES =	
		(E) BRHO =	-1.000 (E)
		LQVISTMP =	298.1
		LQTHRCNO =	
		LTCLOBND =	
		LHCUPBND =	303.1
		INTFTIMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		UPTOXLIM =	0.5000E-02
		FLMETEMP =	

LTC CHEMNAME = LEAD THIOCYANATE

PATHCODE = 11

	MOLWCWT =	323.4	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
	DENSITY =	3820.	DENSTEMP=	293.1	SHPSTATE=S	=	ARHD	BRHO
	CRHO	=	LUPRBNQ=		LQLWRGNO=		LQVISPNT=	LQVISTMP=
	AVIS	=	BVIS	=	LVUPRND=		LVLWRBD=	LQTHRCND=
	LTHCNTMP=		ACON	=	RCON	=	LTCUPBND=	LTCLOBND=
	LQHTCPPT=		LQHTCPTM=		AHC	=	BHC	LHCUPBND=
	LHCLQBNO=		SURFTENS=		SFTNTEMP=		INTFTES=	INTFTTMP=
	SOLUBPNT=	0.4400	SOLUBTMP=	291.1	A	=	B	AVP
	BVP	=	CVV	=	VFUPRND=		VPLWRBD=	AVCP
	BVCP	=	CVCP	=	DVCP	=	VHCUPBD=	VHCLQBND=
	HTFUSION=		LHTVAPOR=		HTCOVSTN=		HTDECOMP=	HTSOLUTN=
	HTREACTN=		HTPOLYMR=		LOFLMLIM=		LPFLMLIM=	BURNRATE=
	TOXINHAL=	0.1400E-01	INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=
	LAFETOX	=	ABFLMTMP=		MOLRATIO=		AIRFUEL	FLMETEMP=
	MOLFRAC =							0.5000E-02

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/07/47 PAGE 80 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LTH	CHEMNAME = LITHARGE	PATHCODE = II	
MOLEWT =	223.2	NBP =	CRITTEMP=
DENSITY =	9500.	OENSTEMP=	293.1
CRHO =		LOUPRNO=	LDLWRBNO=
AVIS =		BVIS =	LVUPRNO=
LTHCNTMP=		ACON =	BCON =
LQHTCPPT=		LQHTCPTM=	AHC =
LHCLNO=		SURFTENS=	SFTNTMP=
SOLUBPNT=	0.6800E-02	SOLUBTMP=	291.1
BVP =		CVP =	VFUPRNO=
BVCP =		CVCP =	OVCP =
HTFUSION=		LHTVAPOR=	HTCONSTN=
HTREACTN=		HTPOLYMR=	LOFLMLIM=
TOXINHAL=	0.2000E-01	INHALCNC=	INHALTME=
LATETOX =		ABFLMTMP=	MOLRATIO=
MOLFRAC =			
			CRITPRES=
			BRHO =
			LQVISTMP=
			LOTHRCND=
			LTCLOBND=
			LHCUPBND=
			INTFTTMP=
			AVP =
			AVCP =
			VHCLNOBND=
			HTSOLUTN=
			BURNRATE=
			UPTOXLIM=
			FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LTM CHEMNAME = LITHIUM, METALLIC

PATHCODE = RR

MOLEWT = 6.939	NBP =	NFP =	CRITEMP=	CRITPRES=
DENSITY = 530.0	DENSTEMP= 293.1	SHPSIATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOV:SP,T=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRB:D=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPB:D=	LTCLOBND=
LOHTCPPT=	LOHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNIEMP=	INTFTES,S=	INTFTIMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRB:D=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPB:D=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCO:STN= -0.4300E+08	PTDECOMP=	HTSOLUTN= -0.7330E+08
HTREACTN=	HTPOLYMR=	LOFL:LM=	IPFLMLIN=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIN=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LTT	CHEMNAME = LEAD TETRAACETATE	PATHCODE = RR	
MOLEWT =	443.4	NFP =	448.0
DENSITY =	2200.	SHSTATE=S	
CRHO =		LDLWPSND=	
AVIS =		LVUPRSD=	
LTHCNTMP=		BCON =	
LQHTCPPT=		AHC =	
LHCLOBND=		SFTNTEMP=	
SOLUBPNT=		A =	
BVP =		VFUPRSD=	
BVCP =		DVCP =	
HTFUSION=		LHTVAPOR=	
HTREACTN=		HTPOLYMR=	
TOXINHAL=	0.1000E-01	INHALCNC=	
LATETOX =		ABFLMTMP=	
MOLFRAC =			
		CRITTEMP=	
		BRHO =	
		LOVISSTMP=	
		LOTHRCND=	
		LTCLOBND=	
		LHCUPBND=	
		INTFTIMP=	
		AVP =	
		AVCP =	
		VHCLOBND=	
		HTSOLUTN=	
		BURNRATE=	
		UPTOXLIM=	0.5000E-02
		LOTOXLIM=	0.5000E-03
		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MAA  CHEMNAME = METHYL AMYL ALCOHOL      PATHCODE = A  P  O  T  U
MOLEWT = 102.2      NBP = 405.0      (E) CRITTEMP= 564.0      CRITPRES=
DENSITY = 807.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1158.      BRHO = -1.200
CRHO = 0.0000E+00      LDUPREND= 333.2      LDWRSND= 273.2      LQVISPAT= 0.3800E-02      LQVISTMP= 298.2
AVIS =      BVIS =      LVUPRSND=      LVLWRBND=      LQTHRCNO= 0.1500      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0      (E) LTCLOBND= 283.0      (E)
LQHTCPPT= 2177.      LQHTCPTM= 293.2      AHC = 949.7      EHC = 4.187      LHCUPBNO= 303.2
LHCLOBND= 273.2      SURFTENS 0.2250E-01      SFTNTEMP= 293.2      INTFTENS= 0.4000E-01(E) INTFTIMP= 293.0      (E)
SOLUBPNT= 1.700      SOLUBTMP= 293.2      A =      B =      AVP = 10.61
BVP = 2234.      CVP = -6.260      VFUPRSND= 423.2      VPLWRBND= 283.2      AVCP = 7063.
BVCP = 640.6      CVCP = -0.3643      DVCP = 0.8206E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSIGN=      LHTVAPOR= 0.3772E+06      HTCONSTN= -0.2590E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LCFWYLM= 1.000      UPFLMLIM= 5.500      BURNRATE=
TOXINHAL= 25.00      INHALCNC=      INHALTNE=      LOTOXLM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MAC      CHEMNAME = METHYL AMYL ACETATE      PATHCODE = A   T   U
MOLEWT = 144.2      NBP      = 419.4      NFP      = 209.4      CRITTEMP= 592.0      CRITPRES= 0.2600E+07
DENSITY = 860.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1141.      BRHO      = -0.9600
CRHO      = 0.0000E+00      LOUPRENO= 333.2      LOLWRENO= 273.2      LOVISPLT= 0.1750E-02(E)      LOVISTMP= 298.0 (E)
AVIS      = -13.40 (E)      BVIS      = 2100.      (E)      LVUPPBNQ= 303.0 (E)      LVLWRBND= 278.0 (E)      LOTHRCND= 0.1500 (E)
LTHCNTMP= 298.0 (E)      ACON      = 0.1500 (E)      BCON      = 0.0000E+00(E)      LTCUPBND= 303.0 (E)      LTCLOBNO= 278.0 (E)
LOHTCPPT= 2052.      LOHTCPTM= 293.2      AHC      = 824.1      BHC      = 4.187      LHCUPBNO= 313.2
LHCLOBNO= 273.2      SURFTENS= 0.2500E-01(E)      SFTNTMP= 298.0 (E)      INTFTENS= 0.4000E-01(E)      INTFTMP= 298.0 (E)
SOLUBPAT= 0.1000      SOLUBTMP= 293.2      A      = 8      B      = 9.143
BVP      = 1449.      CVP      = -69.16      VFUPPBNQ= 383.2      VPLWRBND= 283.2      AVCP      = -6196.
BVCP      = 778.7      CVCP      = -0.4007      OVCP      = 0.5862E-04      VHCUPBND= 250.0
HTFUSION=      LHTVAPOR= 0.5233E+06      HTCOVSIN= -0.3350E+08(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.9000      I'PFLMLIM= 5.700      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PATHCODE = A P Q R S

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MAM  CHEMNAME = METHYL ACRYLATE      PATHCODE = A  P  O  R  S  Z
MOLEWT = 86.09      NBP = 353.8      NFP = 196.7      CRITTEMP= 536.2      CRITPRES= 0.4300E+07
DENSITY = 956.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1308.      BRHO = -1.200
CRHO = 0.0000E+00      LDUPRND= 303.2      LDWRBND= 273.2      LOVISPT= 0.4800E-03      LOVISTMP= 293.2
AVIS = -11.33      BVIS = 1086.      LVUPRND= 363.2      LVLWRBND= 263.2      LOTHRCND= 0.1617
LTHCNTMP= 293.2      ACON = 0.3151      BCON = -0.5233E-03      LTCUPBND= 373.2      LTCLOBND= 253.2
LOHTCPPT= 1876.      LOHTCPTM= 293.2      AHC = 1178.      BHC = 2.386      LHCUPBND= 353.2
LHCLOBND= 253.2      SURFTENS= 0.2420E-01      SFTNTMP= 293.2      INTFTENS= 0.3000E-01(E)      INTFTMP= 293.0 (E)
SOLUBPNT= 5.500      SOLUBTMP= 293.2      A = 8      B = 9.121
BV,2 = 1211.      CVP = -59.16      VFUPRND= 393.2      VPLWRBND= 273.2      AVCP = 0.1516E+05
BVCP = 279.3      CVCP = -0.8792E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3768E+06      HTCOMYSTN= -0.2300E+08(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR= -0.9127E+06      LOFLMLIM= 2.800      UPFLMLIM= 25.00      BURNRATE=
TOXINHAL= 10.00      INHALCNC= 25.00      INHALTME= 1800.      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MAN  CHEMNAME = N-METHYLANILINE
      MOLEWT = 107.2      NBP = 469.1      PATHCODE = A T U X Y
      DENSITY = 989.0      DENSTEMP= 293.1      SHPSIATE=L      CRITPRES= D.5200E+07
      CRHO = 0.0000E+00      LDUPREND= 303.1      LDWRBND= 273.1      LOVISPAT= 0.236DE-02      BRHO = -0.8000
      AVIS = -13.48      8VIS = 2178.      LVUPRND= 323.1      LVLWRB'D= 283.1      LQTHRCND= 0.1849
      LTHCNTMP= 293.1      ACON = 0.1849      BCON = 0.0000E+00      LTCUPBND= 298.1      LTCLOBND= 283.1
      LQHTCPPT= 2135.      LQHTCPTM= 293.1      AHC = 2135.      EHC = 0.0000E+00      LHCUPBND= 303.1
      LHCL08ND= 273.1      SURFTENS= 0.395DE-01      SFTNTMP= 293.1      INTFTENS=      INTFTIMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.207
      8VP = 1631.      CVP = -80.65      VFUPRND= 480.1      VPLWRB'D= 320.1      AVCp =
      8VCP =      CVCP =      QVCP =      VHCUPB'D=      VHCLOBND=
      HTFUSION=      LHTVAPOR= 0.420DE+06      HTCOMSTN= -0.3801E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LDFLMLIM=      HTDECOMP=      BURNRATE= 0.6096E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      A8FLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPER

MAP	CHEMNAME = METHYLACETYLENE - PROPADIENE MIXTURE	PATHCODE = A	B	C	D	E	F	G
MOLECWT =	40.10	NBP = 244.0	(E)	NFP =	CRITTEMP=		CRITPRES=	
DENSITY =	576.0	DENSTEMP=	288.1	SHPSTATE=L	DRHO =	1037.	BRHO =	-1.600
CRHO =	0.0000E+00	LDUPREND=	293.1	LDLWRBND=	233.1	LOVISP,T=	LOVISTMP=	
AVIS =		BVIS =		LVUPRBNQ=		LVLWRBND=	LOTHRCOND=	0.1163 (E)
LTHCNTMP=	273.1	ACCN =	0.1163	(E)	SCON =	0.0000E+00(E)	LTCUPBND=	283.1
LOHTCPPT=	1507.	LOHTCPTM=	294.1	AHC =	279.9	(E)	BHC =	4.187
LHCLOBNO=	253.1	SURFTENS=	0.1800E-01	SFTNTTEMP=	249.1	INTFTENS=	INTFTTMP=	
SOLUBPNT=		SOLUBTMP=		A =		B =	AVP =	9.146
BVP =	962.0	CVP =	-0.1500	VFUPRBNQ=	293.1	VPLWRBND=	243.1	AVCP =
BVCP =	111.8	CVCP =	0.0000E+00	OVCP =	0.0000E+00	VHCUPBND=	600.0	VHCLOBNO=
HTFUSION=		LHTVAPOR=	0.5280E+06	HTCOMBNTN=	-0.4600E+08	HTDECOMP=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	3.000	UPFLMLIN=	11.00	BURNRATE=
TOXINHAL=	1000.	INHALCNC=		INHALTME=		LOTOXLIM=		UPTOXLIM=
LAFETOX =		ABFLMTMP=		MOLRATIO=	1.000	(E)	AIRFUEL =	13.69 (E)
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MAT		CHEMNAME = MERCURIC ACETATE		PATHCODE = SS	
MOLEWT =	318.7	NBP =		CRITTEMP=	
DENSITY =	3270.	DENSTEMP=	293.1	ARHO =	
CRHO =		LDUPRND=		LOVISPT=	
AVIS =		BVIS =		LVUPRND=	
LTHCNTMP=		ACON =		LTCUPBND=	
LOHTCPPT=		LOHTCPTM=		BHC =	
LHCLOBND=		SURFTENS=		INTFTENS=	
SOLUBPNT=	25.00	SOLUBTMP=	283.1	B =	
BVP =		CVP =		VPLWRBND=	
BVCP =		CVCP =		VHCUPBND=	
HTFUSION=		LHTVAPOR=		HTDECONP=	
HTREACTN=		HTPOLYMR=		UPFLMLIN=	
TOXINHAL=	0.3500E-02	INHALCNC=		LOTOXLIM=	
LATEOX =		ABFLMTMP=		AIRFUEL =	
MOLFRAC =					
				CRITPRES=	
				LOTHRCND=	
				LTCLOBND=	
				LHCUPBND=	
				INTFTTMP=	
				AVP =	
				AVCP =	
				VHCLOBND=	
				HTSOLUTN=	
				BURNRATE=	
				UPTOXLIM=	
				FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MBK CHEMNAME = METHYL N-BUTYL KETONE

PATHCODE = A P Q T U

MOLEWT = 100.2	NEP = 400.0	NFP = 216.3	CRITTEMP =	CRITPRES =	
DENSITY = 810.0	OENSTMP = 293.1	SHPSSTATE=L	ARHO =	(E) BRHO =	-1.000 (E)
CRHO = 0.0000E+00(E)	LOUPRNO = 303.1	LOLWRNO = 273.1	LOVISPNT =	LOVISTMP =	293.1
AVIS = -11.52	8VIS = 1215.	LVUPRNO = 303.1	LVLWRNO =	LQTHRCNO =	0.1512 (E)
LTHCNTMP = 293.1	ACON = 0.1512	(E) 8CON = 0.0000E+00(E)	LTCUPNO =	LTCLOBNO =	273.1
LQHTCPPT = 2303.	LQHTCPTM = 293.1	AHC = 2303.	BHC =	LHCUPBNO =	313.1
LHCLOBNO = 273.1	SURFTENS = 0.2549E-01	SFTNTMP = 293.1	INTFTENS =	INTFTTMP =	293.1
SOLUBPNT = 1.400	SOLUBTMP = 293.1	A =	B =	AVP =	9.673
BVP = 1867.	CVP = -0.1500	VFUPRNO = 400.1	VPLWRNO =	AVCP =	
BVCP =	CVCP =	OVCP =	VHCUPBNO =	VHCLOBNO =	
HTFUSION =	LHTVAPOR = 0.3400E+06	HTCOMSTN = -0.3740E+08	HTOECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.300	(P)FLMLIM =	BURNRATE =	0.8016E-04
TOXINHAL = 100.0	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	0.5000E-02
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MCA  CHEMNAME = MONOCHLOROACETIC ACID  PATHCODE = A  P
MOLEWT = 94.50  NBP = 462.0  NFP = 333.0  CRITTEMP=
DENSITY = 1580.  DENSTEMP= 293.1  SHPSTATE=S  ARHO = 1776.  CRITPRES=
CRHO = 0.0000E+00  LOUPRENO= 453.1  LDLPBNO= 333.1  LOVISPNT=  LOVISTMP=
AVIS =  BVIS =  LVLPRBND=  LVLWRBNO=  LOTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBNO=
LOHTCPPT=  LOHTCPTM=  AHC =  BHC =  LMCUPBNO=
LHCLOBNO=  SURFTENS= 0.3300E+01  SFTNTMP= 353.1  INTFTENS=  INTFTTMP=
SOLUBPNT= 72.00  SOLUBTMP= 277.1  A =  B =  AVP = 11.22
BVP = 2870.  CVP = -0.1500  VFLUPBND= 463.1  VPLWRBND= 333.1  AVCP =
BVCP =  CVCP =  OVCP =  VHCUPBND=  VHCLOBNO=
HTFUSION=  LHTVAPOR= 0.5820E+06  HTCOMSTN= -0.4217E+07  HTSOLUTN= -0.1500E+06
HTREACTN=  HTPOLYMR=  LOFLMLIM= 8.000  BURNRATE=
TOXINHAL=  INHALTME=  INHALTME=  LOTXCLIM= 0.5000E-04  UPTOXLIM= 0.5000E-03
LAFETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MCC CHEMNAME = MERCURIC AMMONIUM CHLORIDE PATHCODE = II

MOLEWT =	252.1	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	5700.	DENSTEMP=	SHPSSTATE=S	ARHO =	BRHO =
CRHO =		LDUPRBD=	LDLWRBD=	LOVISPNT=	LOVISGMP=
AVIS =		BVIS =	LVUPRBD=	LVLWRBD=	LOTHRCND=
LTHCNTMP=		ACON =	BCON =	LTCUPBD=	LTCLOBND=
LQHTCPPT=		LOHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	0.1400	SOLUBTMP=	A =	B =	AVP =
BVP =		CVP =	VFUPRBD=	VPLWRBD=	AVCP =
EVCP =		CVCP =	DVCP =	VHCUPBD=	VHCLOBND=
HTFUSION=		LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	LOFLWLM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	0.4400E-02	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAETOX =		ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MCF  CHEMNAME = MONOCHLORODIFLUOROMETHANE      PATHCODE = A  C  I  J
MOLECW = 86.48      NBP = 232.7      NFP =      CRITTEMP = 369.2      CRITPRES = 0.4930E+07
DENSITY = 1410.      DNSTEMP = 233.2      SHPSRATE=L      ARHO = 2038.      BRHO = -2.700
CRHO = 0.0000E+00      LDUPRBND = 243.2      LDLPBND = 193.2      LQVISPT =      LQVISTMP =
AVIS =      BVIS =      LVUPRSND =      LVLWRBND =      LOTHRCND =
LTHCNTMP =      ACON =      BCON =      LTCUPBND =      LTCLOBND =
LOHTCPTM =      AHC =      BHC =      LHCUPBND =
LHCLOBND =      SURFTENS = 0.1500E-01(E) SFTNTEMP = 232.0      (E) INTFTENS = 0.5000E-01(E) INTFTTMP = 232.0      (E)
SOLUBPNT = 0.3000      SOLUBTMP = 298.2      A =      B =      AVP = 9.750
BVP = 1104.      CVP = 0.4004E-01      VFUPRSND = 263.2      VPLWRBND = 193.2      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND =      VHCLOBND =
HTFUSION =      LHTVAPOR = 0.2340E+06      HTCONSTN =      HTDECOMP =      HTSOLUTN =
HTREACTN =      HTPOLYMR =      LOFLWLIM =      BURNRATE =
TOXINHAL = 1000.      INHALCNC =      INHALTME =      LOTOXLIM =      UPTOXLIM =
LATETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MCH  CHEMNAME = METHYL CHLOROFORMATE      PATHCODE = A  O  X  Y

MOLEWT = 94.50      NBP = 344.0      NFP = 192.0      (E) CRITTEMP=
DENSITY = 1220.      DENSTEMP= 293.1      SHPSSTATE=L      ARHO = 1513.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRND= 303.1      LDLPBND= 273.1      LQVISPT= 0.5700E-02(E) LOVISTMP= 293.1
AVIS = -18.81      (E) 8VIS = 4000.      (E) LVUPRND= 298.1      LVLWRBND= 288.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) 8CON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LOHTCPPT= 2093.      (E) LOHTCPTM= 293.1      AHC = 2093.      (E) 8HC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2600E-01(E) SFTNTMP= 293.1      INTFTENS=
SOLU8PNT=          SOLU8TMP=          A =          B =          AVP = 10.12      (E)
8VP = 1760.      (E) CVP = -0.1500      (E) VUPRND= 348.1      VPLWRBND= 333.1      AVCP = 0.2684E+05(E)
8VCP = 143.6      (E) CVCP = -0.6896E-01(E) DVCP = -0.3274E-04(E) VHCPBND= 600.0      VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.3600E+06(E) HTCOMBNTN= -0.1200E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLMLIN=          UPFLMLIN=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

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BURNRATE= 0.3340E-04

UPTOXLIM= 0.5000E-04(E)

FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MCL  CHEMNAME = METHALLYL CHLORIDE      PATHCODE = A  T  U  V  W
MOLECW = 90.55      N8P = 345.4      NFP = 193.0      ( ) CRITTEMP=
OENSITY = 926.0      OENSTEMP= 293.1      SHPSTATE=L      ARHO = 1219.      (E) 8RHO = -1.000      (E)
CRHO = 0.000E+00(E) LDUPRBN= 303.1      LDWRBN= 273.1      LQVISPT=      LQVISTMP=
AVIS =      8VIS =      LVUPRBN=      LVLRBN=      LQTHRCND= 0.1279      (E)
LTHCNTMP= 293.1      ACCN = 0.1279      (E) BCON = 0.000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 1926.      (E) LQHTCPTM= 293.1      AHC = 698.6      (E) BHC = 4.187      (E) LHCUPBNO= 303.1
LHCLOBNO= 283.1      SURFICNS= 0.250E-01(E) SFTNTEMP= 293.1      INTFTENS= 0.320E-01(E) INTFTIMP= 293.1
SOLUBPNT= 0.1000      (E) SOLUBTMP= 293.1      A =      B =      AVP = 9.881
BVP = 1684.      CVP = -0.1500      VUPRBN= 348.1      VPLWRBN= 283.1      AVCP = 0.1529E+05(E)
BVCP = 350.7      (E) CVCP = -0.2077      (E) OVCP = 0.4761E-04(E) VHCUPBND= 500.0      VHCLOBNO= 250.0
HTFUSION=      LHTVAPOR= 0.370E+06      HTCOMSTN= -0.270E+08(E) HTOECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.300      UPFLMLIM= 9.300      BURNRATE= 0.7348E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTCXLM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MCN      CHEMNAME = MERCURIC CYANIDE      PATHCODE = SS

MOLECW = 252.6      NBP =
DENSITY = 4000      DENSTEMP = 293.1      SHPS:ATE=S
CRHO =
AVIS =
LTHCNTMP =
LQHTCPT =
LHCLOBND =
SOLUBPNT = 11.10      SOLUBTMP = 298.1      A = -42.67      E = 0.1800
BVP =
BVCP =
HTFUSION =
HTREACTN =
TOXINHAL = 0.4400E-02      INHALCNC =
LATETOX =
MOLFRAC =

CRITPRES =
BRHO =
LOVISTMP =
LQTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN =
BURNRATE =
UPTOXLIM = 0.500DE-04(E)
FLMETEMP =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MCP  CHEMNAME = METHYLCYCLOPENTANE      PATHCODE = A  T  U  V  W
MOLEWT = 84.20      NBP = 345.0      CRITTEMP= 532.8      CRITPRES= 0.3790E+07
DENSITY = 749.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1042.      BRHO = -1.000
CRHO = 0.0000E+00      LDUPRNO= 313.1      LQVISTMP= 293.1      LQVISTMP= 293.1
AVIS = -11.04      BVIS = 1010.      LOTHRCND= 0.1512      LOTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E)      SCON = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLO8ND= 288.1
LOHTCPPT= 2261.      LOHTCPTM= 293.1      AHC = 1279.      BHC = 3.349      LHCUPBND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.2160E-01      SFTNTEMP= 293.1      INTFTENS= 0.3500E-01(E)      INTFTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A =      E =      AVP = 9.797
BVP = 1653.      CVP = -0.1500      VFUPRNO= 348.1      VPLWRBND= 283.1      AVCP = -0.1043E+05
BVCP = 404.0      CVCP = 0.0000E+00      OVCP = 0.0000E+00      VHCUPBND= 400.0      VHCLOBND= 280.0
HTFUSION=      LHTVAPOR= 0.3800E+06      HTCOMSTN= -0.4400E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.100      (E)      UPFLMLIM= 8.700      (E)      BURNRATE= 0.1186E-03
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MCS  CHEMNAME = METHYLDICHLOROSILANE      PATHCODE = A  0

MOLEWT = 115.0      NBP = 314.7      NFP = 180.0      CRITTEMP=
DENSITY = 1110.      OENSTEMP= 298.1      SHPSTATE=L      ARHO =
CRHO = 0.0000E+00(E) LOUPRBND= 303.1      LDLPBND= 273.1      LOVISPA.T= 0.5700E-02(E) LOVISTMP= 293.1      (E) BRHO = -1.000      (E)
AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPRBND= 298.1      LVLWRBND= 283.1      LOTHRCNO= 0.1628      (E)
LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBNO= 283.1
LQHTCPPT= 1465.      (E) LOHTCPTM= 293.1      AHC = 1465.      (E) SHC = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBNO= 283.1      SURFTENS= 0.3500E-01(E) SFTNTEMP= 293.1      INTFTENS=
SOLUBTMP=
BVP = 1490.      CVP = -0.1500      VFUPRBND= 318.1      VPLWRBND= 293.1      AVP = 9.740
BVCP =
HTFUSION=
HTVAPOR= 0.2500E+06      HTCOMSTN= -0.1100E+08(E) HTOECOMP=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

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CRITPRES=
 (E) BRHO =
 LOVISPA.T=
 LVLWRBND=
 LTCUPBND=
 LTCLOBNO=
 LHCUPBND=
 INTFTIMP=
 AVP =
 AVCP =
 VHCLOBNO=
 HTSOLUTN=
 BURNRATE=
 UPTOXLIM=
 FLMETEMP=

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/DB/23 PAGE100/A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MCT  CHEMNAME = METHYLCYCLOPENTADIENYLMANGANESE TRICARB-  PATHCODE = A  X  Y
MOLEWT = 218.1  NBP = 506.0  NFP = 274.0  CRITTEMP=  CRITPRES=
DENSITY = 1390.  OENSTEMP= 293.1  SHPSTATE=L  ARHO = 1683.  (E) BRHO = -1.000  (E
CRHO = 0.0000E+00(E) LDUPRBD= 303.1  LDLWRSD= 274.1  LQVISPT=  LQVISTMP=
AVIS =  BVIS =  LVUPPSND=  LVLWRBD=  LQTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCUPBD=  LTCLOBND=
LOHTCPPT= 1256.  (E) LOHTCPTM= 293.1  AHC = 1256.  (E) BHC = 0.0000E+00(E) LHCUPBD= 303.1
LHCLOBND= 283.1  SURFTENS=  SFNTTEMP=  INTFTENS=  INTFTTMP=
SOLUBPNT= 0.7000E-02  SOLUBTMP= 298.1  A =  B =  AVP = 11.37
BVP = 3088.  CVP = -0.1500  VFUPPSND= 373.1  VPLWRBD= 288.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBD=  VHCLOBND=
HTFUSION=  LHTVAPOR=  HTCOMSTN= -0.2300E+00(E) HTDECDMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE=
TOXINHAL= 0.1000  INHALCNC=  INHALTME=  LOTCXLM=  UPTOXLM= 0.5000E-04(E
LAFETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MEA  CHEMNAME = MONOETHANOLAMINE
      MOLEWT = 61.08      NBP = 443.0      NFP = 283.5      CRITTEMP= 614.0      CRITPRES= 0.4450E+07
      DENSITY = 1016.      DENSTEMP= 293.2      SHPSSTATE=L      ARHO = 1261.      BRHO = -0.8400
      CRHO = 0.0000E+00      LOUPRND= 353.2      LOLWFSND= 283.2      LOVISPNT=      LOVISTMP=
      AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LOTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LOHTCPPI= 2349.      LOHTCPIM= 303.2      AHC = 1075.      SHC = 4.187      LHCUPBNO= 303.2
      LHCLOBNO= 283.2      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.70
      BVP = 2962.      CVP = 0.4004E-01      VFUPRND= 423.2      VPLWRBND= 284.2      AVCp =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBNO=
      HTFUSION=      LHTVAPOR= 0.8374E+06      HTCCNSTN= -0.2360E+08(E)      HTSOLUTN= -0.4000E+05(E)
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL= 3.000      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MEK      CHEMNAME = METHYL ETHYL KETONE      PATHCODE = A  P  O  R  S
MOLEWT = 72.11      NBP = 352.8      NFP = 186.9      CRITTEMP= 535.7      CRITPRES= 0.4150E+07
DENSITY = 806.0      DENTEMP= 293.2      SHPSTATE=L      ARHO = 1099.      BRHO = -1.0000
CFHO = 0.0000E+00      LDUPRND= 323.2      LDWRSND= 273.2      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQVISTMP=      LQVISTMP=
LTHCNTMP=      ACON =      BCCN =      LTCUPBND=      LTCLOBND=      LTCLOBND=
LQHTCPPT= 2194.      LQHTCPTM= 293.2      AHC = 1703.      BHC =      LHCUPBND= 313.2
LHCLOBND= 233.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTIMP=
SOLUBPNT= 27.00      SOLUBTMP= 293.2      A =      B =      AVP = 9.104
BVP = 1216.      CVP = -55.86      VFUPRND= 393.2      VPLWRBND= 253.2      AVCP = 2931.
BVCP = 459.3      CVCP = -0.2135      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION= 0.1043E+06      LHTVAPOR= 0.4438E+06      HTCOMBSTN= -0.3136E+08      HTSOLUTN= -0.2000E+05(E
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.800      HTDECOMP=      BURNRATE= 0.6833E-04
TOXINHAL= 200.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MEP  CHEMNAME = METHYLETHYLPIRIDINE  PATHCODE = 4  P  O  T  U
MOLEWT = 121.2  NBP = 451.0  NFP = 202.9  CRITTEMP=
OENSITY = 922.0  DENSTEMP= 293.2  SHPSSTATE=L  ARHO = 1215.  BRHO = -1.0000  CRITPRES=
CRHO = 0.0000E+00  LDUPRBND= 303.2  LDWRBND= 283.2  LQVISPRNT= 0.2000E-02(E)  LQVISTMP= 293.0 (E)
AVIS = -13.40 (E)  BVIS = 2100. (E)  LVUPRBND= 313.0 (E)  LVLWRBND= 283.0 (E)  LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E)  ACON = 0.1500 (E)  BCON = 0.0000E+00(E)  LTCUPBND= 313.0 (E)  LTCLOBND= 283.0 (E)
LQHTCPPT= 2000. (E)  LQHTCPTM= 293.0 (E)  AHC = 2000. (E)  BHC = 0.0000E+00(E)  LHCUPBND= 313.0 (E)
LHCLOBNO= 283.0 (E)  SURFTENS= 0.2500E-01(E)  SFINTEMP= 293.0 (E)  INTFTENS= 0.4000E-01(E)  INTFTMP= 293.0 (E)
SOLUBPNT= 1.200  SOLUBTMP= 293.2  A =  B =  AVP = 9.773 (E)
BVP = 2150. (E)  CVP = 0.0000E+00(E)  VFUPRBND= 450.0 (E)  VPLWRBND= 300.0 (E)  AVCP =
BVCP =  CVCV =  DVCP =  VHCUPBND=
HTFUSION=  LHTVAPOR= 0.3400E+06(E)  HTCOMBTN= -0.3890E+08(E)  HTOECOMP=  HTSOLUTN= -0.3000E+05(E)
HTREACTN=  HTPOLYMR=  LOFLWLIM= 1.100  UPFLMLIM= 6.600  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LAFETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =  FLMETEMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MFA  CHEMNAME = MOTOR FUEL ANTI-KNOCK COMPOUNDS CONTAINI  PATHCODE = A  X  Y
MOLEWT =          NBP =          367.0 (E) NFP =          CRITTEMP=
DENSITY =          1500. (E) DENSTEMP=          288.2 SHPSIATE=L  ARHO =          CRITPRES=
CRHO =          0.0000E+00(E) LDUPR8ND=          313.0 (E) LDLWR8ND=          283.0 (E) LOVISPT=          0.5800E-02(E) LQVISTMP=          293.0 (E)
AVIS =          -18.80 (E) 8VIS =          4000. (E) LVUPR8ND=          313.0 (E) LVLWR8ND=          283.0 (E) LQTHRCND=          0.1500 (E)
LTHCNTMP=          293.0 (E) ACCN =          0.1500 (E) BCDN =          0.0000E+00(E) LTCUPBND=          313.0 (E) LTCLEND=          283.0 (E)
LOHTCPPT=          2000. (E) LOHTCPTM=          293.0 (E) APC =          2000. (E) EHC =          0.0000E+00(E) LHCUPBND=          313.0 (E)
LHCL08ND=          283.0 (E) SURFTENS=          0.2000E-01(E) SFTNTMP=          293.0 (E) INTFTENS=          0.4500E-01(E) INTFTIMP=          293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          E =          AVP =          9.641 (E)
EVP =          2086. (E) CVP =          0.0000E+00(E) VFUTR8ND=          450.0 (E) VPLWR8ND=          300.0 (E) AVCP =          0.1990E+05(E)
EVCP =          1073. (E) CVCP =          -0.6010 (E) DVCP =          0.0000E+00(E) VHCUPBND=          500.0 (E) VHCLOBND=          300.0 (E)
HTFUSION=          LHTVAPOR=          0.2350E+06(E) HTCOM8TN=          -0.4240E+08(E) HTDECDMP=          HTSOLUTN=
HTREACTN=          HTPDLYMR=          LDFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LDTOXLIM=
LAFETOX =          A8FLWTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NAME CHEMNAME = METHYL FORMATE

PATHCODE = A P Q R S

MOLEWT = 60.10	NBP = 305.0	NFP = 173.4	CRITTEMP = 487.0	CRITPRES = 0.6000E+07
DENSITY = 974.0	OENSTEMP = 293.1	SHPSSTATE=L	ARHO = 1382.	(E) BRHO = 1.400 (E)
CRHO = 0.0000E+00(E)	LOUPPND = 303.1	LOLWPRND = 273.1	LOVISEPT = 0.3560E-03	LOVISTMP = 293.1
AVIS = -10.68	BVIS = 804.0	LVLPRND = 313.1	LVLWRBND = 273.1	LOTHRCND = 0.1896
LTHCNTMP = 303.1	ACON = 0.2601	BCON = -0.2326E-03	LTCUPBND = 303.1	LTCLOBNO = 273.1
LQHTCPPT = 2156.	LQHTCPTM = 293.1	AHC = 2156.	LHCUPBNO = 0.0000E+00	LHCUPBNO = 303.1
LHCLOBNO = 273.1	SURFTENS = 0.2500E-01	SFTNTENP = 293.1	INTFTTMP =	
SOLUBPNT = 30.00	SOLUBTMP = 293.1	A =	AVP = 10.04	
BVP = 1537.	CVP = -0.1500	VFUPRND = 308.1	AVCP = 8433.	(E)
BVCP = 234.7 (E)	CVCP = -0.1427 (E)	DVCP = 0.3358E-04(E)	VHCLOBNO = 250.0	
HTFUSION =	LHTVAPOR = 0.4690E+06	HTCOYSTN = -0.1620E+08	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM = 5.000	BURNRATE = 0.4175E-04	
OVINHAL = 100.0	INHALCNC =	INHALTME =	UPTOXLIM = 0.1500E-01	
LARETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =	
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MGX CHEMNAME = MAGNESIUM

PATHCODE = 11

MOLEWT = 24.30	NBP = 1373	NFP = 923.0	CRITTEMP =	CRITPRES =
DENSITY = 1740.	DENSIEMP = 293 1	SHESTATE = S	BRHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LOVISTMP =	LOVISTMP =
AVIS =	BVIS =	LVUPBND =	LOTHRCND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =	LTCLOBND =
LHMCPTMP =	LCHTCPTM =	AHC =	LHCUPBND =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTENP =	INTFTTMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =	AVP =
BVP =	CVP =	VUPBNO =	AVCP =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =	VHCLOBND =
HTFUSION =	LHTVAFOR =	HTCONGIN = -0.2780E+08	HTSOLUTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	BURNRATE =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-03	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MHZ CHEMNAME = METHYLHYDRAZINE

PATHCODE = A P O R S

MOLEWT = 46.10	NBP = 360.7	NFP = 220.8	CRITTEMP= 585.0	CRITPRES= 0.8250E+07
DENSITY = 878.0	DENSTEMP= 293.1	SHPSSTATE=L	ARHO = 1171.	BRHO = -1.000
CRHO = 0.0000E+00	LDUPRBD= 313.1	LDLWPSND= 273.1	LOVISPT= 0.8700E-03	LOVISTMP= 293.1
AVIS = -12.82	BVIS = 1692.	LVUPRBD= 313.1	LVLWRBD= 253.1	LOTHRCND= 0.2500
LTHCNTMP= 293.1	ACCN = 0.3385	BCCN = -0.3024E-03	LTCUPBD= 333.1	LTCLOBND= 253.1
LQHTCPT= 293.1	LOHTCPTM= 293.1	AHC = 2563.	BHC = 1.256	LHCUPBND= 313.1
LHCLOBND= 253.1	SURFTENS= 0.3430E-01	SFTNTEMP= 293.1	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 10.66
BVP = 2040.	CVP = -0.1500	VFUPRBD= 363.1	VPLWRBD= 283.1	AVCP = 0.2868E+05
BVCP = 144.4	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBD= 500.0	VHCLOBND= 250.0
HTFUSION=	LHTVAPOR= 0.8750E+06	HTCOMSTN= -0.2831E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM= 2.500	UPFLMLIN=	BURNRATE= 0.3340E-04
TOXINHAL= 0.2000	INHALCNC= 90.00	INHALTIME= 600.0	LOTOXLIM=	UPTOXLIM= 0.5000E-04(E
LATEFOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY

MIC CHEMICAL

MIC

MOLECW =

DENSITY =

$$\text{CRHC} =$$

AVIS =

LTHCNTP=

LOHTCPPT=

LHCLOBND=

SOLUBILITY =

BVP =

BVC P =

HTFUSICN=

HTREACTN=

TOX INHAL =

LAFETOX =

$$\text{MULFRAC} =$$

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MID      CHEMNAME = MERCURIC IODIDE          PATHCODE = II
MOLEWT = 454.9      NBP = 627.0      NFP = 530.0      CRITTEMP=
DENSITY = 6300.      DENSTEMP= 293.1      SHPSTATE=S      ARHO =
CRHO =              LDUPRND=              LQVISPNT=      LQVISTMP=
AVIS =              BVIS =              LVLWRBND=      LQTHRCND=
LTHCNTMP=          ACON =              LTCUPBND=      LTCLOBND=
LQHTCPPT=          LQHTCPTM=          EHC =              LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTMP=      INTFTTMP=
SOLUBPNT= 0.4700E-02      SOLUBTMP= 290.6      A = -0.6791E-01      B = 0.25DDDE-03      AVP =
BVP =              CVP =              VFUPRND=      VPLWRBND=      AVCP =
BVCP =              CVCP =              DVCVP =      VHCUPBND=      VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOVSTN=      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      UPFLMLIV=      BURNRATE=
TOXINHAL= 0.2500E-02      INHALCNC=          INHALTME=      LOTOXLIV=      UPTOXLIM= 0.5000E-04(E
LATETOX =          ABFLMTMP=          MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

MIK CHEMNAME = METHYL ISOBUTYL KETONE

PATHCODE = A P O T U

MIK	CHEMNAME = METHYL ISOBUTYL KETONE	PATHCODE = A P O T U							
	MOLEWT = 100.2	NBP = 389.4	NFP = 189.0	CRITTEMP=	571.5	CRITPRES=	0.3270E+07		
	DENSITY = 802.0	DENSTEMP=	SHPSTATE=L	ΔRHO =	107B.	BRHO =	-0.9400		
	CRHO = 0.0000E+00	LOUPRBND=	LDLWRBND=	273.2	LQVISPNT=	0.3800E-02	LQVISTMP=	298.2	
	AVIS =	BVIS =	LVUPRBND=		LVLWRBND=		LQTHRCND=		
	LTHCNTMP=	ACON =	BCON =		LTCUPS'D=		LTCLOBND=		
	LQHTCPPT= 1909.	LQHTCPTM=	AHC = 1234.		SHC =	2.303	LHCUPBND=	373.2	
	LHCLOBND= 233.2	SURFTENS=	SFTNTEMP=	293.2	INTFTE'S=	0.1500E-01(E)	INTFTTMP=	293.0 (E)	
	SOLUBPNT= 2.000	SOLUBTMP=	A =		B =		AVP =	8.950	
	BVP = 1257.	CVP = -70.76	VFUPRBND=	423.2	VPLWRBND=	273.2	AVCP =	-1256.	
	BVCP = 590.3	CVCP = -0.3433	DVCP =	0.7955E-04	VHCUPBND=	600.0	VHCLQBND=	250.0	
	HMFUSION=	LHTVAPOR=	0.3454E+06	HTCOYSTN=	-0.2420E+08(E)	HTDECOMP=	HTSOLUTN=	-0.2000E+05(E)	
	HTREACTN=	HTPOLYMR=		LOFLMLIM=	1.400	UPFLMLIM=	BURNRATE=		
	TOXINHAL= 100.0	INHALLCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=	0.5000E-02	
	LATEETOX =	ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=		
	MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MLA	CHEMNAME = MALEIC ANHYDRIDE	PATHCODE = RR	
MOLEWT =	98.06	NFP =	326.0
DENSITY =	1430.	SHPS:ATE=S	
CRHO =		LDLW:END=	
AVIS =		LVUP:END=	
LTHCNTMP=		BCCN =	
LQHTCPPT=		AHC =	
LHCLO8ND=		SFTN:EMP=	
SOLUBPNT=		A =	
BVP =		VFLUP:END=	
BVCP =		DVCP =	
HTFUSION=		HTCO:STN=	-0.1381E+08
HTREACTN=		LOFLN:LIM=	1.400
TOXINHAL=	0.2500	INHALTME=	
LATETOX =		ABFLW:TMP=	
MOLFRAC =		MOLRATIO=	
		CRITTEMP=	
		ARHO =	
		LQVISTMP=	
		LQTHRCND=	
		LTCLO8ND=	
		LHCUP8ND=	
		INTFTIMP=	
		AVP =	
		AVCP =	
		VHCL08ND=	
		HTSOLUTN=	-0.3559E+06
		BURNRATE=	0.2333E-04
		UPTOXLIM=	0.5000E-02
		FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MLI CHEMNAME = MALEIC ACID

PATHCODE = SS

MOLEWT = 116.1	NEP =	403.0	CRITTEMP=	CRITPRES=
DENSITY = 1590.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBD=	LDLWRSND=	LDVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBD=	LVLWRBD=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBD=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	EHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFINTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 79.00	SOLUBTMP= 298.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBD=	VPLWRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBD=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.1170E+DB	HTDECON=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LDFLWLM=	UPFLWLM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLWTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				0.5000E-02

MMW	CHEMNAME = METHYL METHACRYLATE										PATHCODE = A P Q R S Z									
	MOLECWt =	100.1	NBP =	374.2	NFP =	225.0	CRITTEMP=	567.0	CRITPRES=	0.330GE+07										
	DENSITY =	945.0	OENSTEMP=	293.2	SHPSSTATE=L		ARHO =	1268.	BRHO =	-1.100										
	CRHO =	0.0000E+00	LOUPRNO=	323.2	LOLWRBND=	273.2	LOVISP,T=	0.5600E-03	LOVISTMP=	293.2										
	AVIS =	-11.33	BVIS =	1131.	LVLPRBNO=	333.2	LVLWRBND=	273.2	LOTHRCHD=	0.1605										
	LTHCNTMP=	293.2	ACON =	0.3107	BCON =	-0.5117E-03	LTCUPBND=	373.2	LTCLOBND=	263.2										
	LOHTCPPT=	1871.	LOHTCPTM=	293.2	AHC =	1196.	BHC =	2.303	LHCUPBND=	373.2										
	LHCLOBND=	263.2	SURFTENS=	0.2800E-01	SFTNTEMP=	293.2	INTFTENS=	0.4000E-01(E)	INTFTTMP=	293.0 (E)										
	SOLUBPNT=	1.500	SOLUBTMP=	293.2	A =		B =		AVP =	9.037										
	BVP =	1290.	CVP =	-55.16	VFLPRBNO=	413.2	VPLWRBND=	263.2	AVCP =	0.1306E+05										
	BVCP =	544.3	CVCP =	-0.2763	DVCP =	0.3266E-04	VHCUPBND=	600.0	VHCLOBND=	250.0										
	HTFUSION=		LHTVAPOR=	0.3224E+06	HTCCWGTN=	-0.2640E+08(E)	HTDECOMP=		HTSOLUTN=											
	HTREACTN=		HTPOLYMR=	-0.5778E+06	LOFLTLIM=	2.100	UPFLMLIN=	12.50	BURNRATE=											
	TOXINHAL=	100.0	INHALCNC=		INHALTIME=		LOTOXLIM=	0.5000E-02	UPTOXLIM=	0.1500E-01										
	LATETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =		FLMETEMP=											
	MOLFRAC =																			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MNS CHEMNAME = MINERAL SPIRITS PATHCODE = A T U

MOLECW =	780.0	NBP =	428.0	(E) NFP =		CRITPRES =	
DENSITY =	780.0	DENSTEMP =	293.2	SHPSSTATE=L		CRHO =	0.0000E+00(E)
CRHO =	0.0000E+00(E)	LOUPRBND =	313.0	(E) LDLPBND =	283.0	(E) LOVISP.T =	0.5800E-02(E)
AVIS =	-18.80	(E) BVIS =	4000.	(E) LVUPRBND =	313.0	(E) LOTHRCND =	0.1500 (E)
LTHCNTMP =	293.0	(E) ACON =	0.1500	(E) BCCN =	0.0000E+00(E)	(E) LTCLOBND =	283.0 (E)
LQHTCPPT =	2000.	(E) LQHTCPTM =	293.0	(E) AHC =	2000.	(E) EHC =	0.0000E+00(E)
LHCLOBND =	283.0	(E) SURFTENS =	0.2000E-01(E)	SFTNTMP =	293.0	(E) INTFTMP =	0.4500E-01(E)
SOLUBPNT =		SOLUBTMP =		A =		B =	9.641 (E)
BVP =	2086.	(E) CVP =	0.0000E+00(E)	VFUPRBND =	450.0	(E) VPLWRB.D =	300.0 (E)
BVCP =	1073.	(E) CVCP =	-0.6010	(E) DVCP =	0.0000E+00(E)	(E) VHCLPS.D =	500.0 (E)
HTFUSION =		LHTVAPOR =	0.2350E+06(E)	HTCOMSTN =	-0.4240E+08(E)	HTDECCN =	HTSOLUTN =
HTREACTN =		HTPOLYMR =		LOFLMLIM =	0.8000	LPFLMLIM =	BURNRATE =
TOXINHAL =	200.0	INHALCNC =		INHALTME =		LOTOXLIM =	0.5000E-03
LAFETOX =		ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =							

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/09/04 PAGE118 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MNT	CHEMNAME = MERCURIC NITRATE	PATHCODE = SS
MOLEWT =	342.6	NSP =
DENSITY =	4300.	DENSTEMP =
CRHO =		LOUPRND =
AVIS =		BVIS =
LTHCNTMP =		ACON =
LQHTCPPT =		LOHTCPTM =
LHCLOBNO =		SURFTENS =
SOLUBPNT =		SOLUBTMP =
BVP =		CVP =
BVCP =		CVCP =
HTFUSION =		LHTVAPOR =
HTREACTN =		HTPOLYMR =
TOXINHAL =	0.3300E-02	INHALCNC =
LATETOX =		ABFLMTMP =
MOLFRAC =		MOLRATIO =
		CRITTEMP =
		ARHO =
		LOVISTMP =
		LQTHRCNC =
		LTCLOBNO =
		LHCUPBND =
		INTFTTMP =
		AVP =
		AVCP =
		VHCLOBND =
		HTSOLUTN =
		BURNRATE =
		UPTOXLIM =
		FLMETEMP =
		CRITPRES =
		BRHO =
		LOVISTMP =
		LQTHRCNC =
		LTCLOBNO =
		LHCUPBND =
		INTFTTMP =
		AVP =
		AVCP =
		VHCLOBND =
		HTSOLUTN =
		BURNRATE =
		UPTOXLIM =
		FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MOC CHEMNAME = METHOXYCHLOR

PATHCODE = II

MOLEWT = 345.7	NBP =	NFP = 356.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 1410.	DENSTEMP = 298.1	SHPS'ATE=S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 0.1000E-04	SOLUBTMP = 293.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCO:BTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.6500	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.1500E-01
LAETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MOX	CHENAME = MERCURIC OXIDE	PATHCODE = 11	
MOLEWT =	216.6	NBP =	CRITTEMP =
DENSITY =	0.1110E+05	DENSTEMP =	293.1
CRHO =		LDUPREND =	BRHO =
AVIS =		BVIS =	LQVISIMP =
LTHCNTMP =		ACON =	LQTHRCND =
LQHTCPPT =		LQHTCPTM =	LTCLOBND =
LHCLOBND =		SURFTENS =	LHCUPBND =
SOLUBPNT =		SOLUBTMP =	INTFTTMP =
BVP =		CVP =	AVP =
BVCP =		CVCP =	AVCP =
HTFUSION =		LHTVAPOR =	VHCLOBND =
HTREACTN =		HTPOLYMR =	HTSOLUTN =
TOXINHAL =	0.5200E-02	INHALCNC =	BURNRATE =
LAETOX =		ABFLMTMP =	UPTOXLIM =
MOLFRAC =		MOLRATIO =	FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MPA  CHEMNAME = MONOISOPROPANOLAMINE      PATHCODE = A  P  Q
MOLEWT = 75.11      NBP = 433.0      CRITPRES= 0.5900E+07
DENSITY = 961.0      DENSTEMP= 293.2      CRITTEMP= 501.0
CRHO = 0.0000E+00      LDUPRGND= 373.2      ARHO = 1201.
AVIS = 8VIS =      LVUPRGND=      LOVISPT=
LTHCNTMP=      ACON =      LVLWRBND=
LOHTCPPT= 2847.      LOHTCPTM= 293.2      LTCUPBND=
LHCLOBND= 284.2      SURFTENS=      SHC = 4.187
SOLUBPNT=      SOLUBTMP=      INTFTTMP=
BVP = 2789.      CVP = 0.4004E-01      VPLWRBND= 283.2
BVCP =      CVCP =      DVCPC =      VHCLOBND=
HTFUSIGN=      LHTVAPOR= 0.6322E+06      HTCONSTN: -0.3220E+08(E) HTDECOMP=
HTRFACN=      HTPOLYMR=      LOFLMLIM= 2.200      UPFLMLIN= 12.00
TOXINHAL= 5.000      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUFL =
MOLFRAC =      MOLFRAC =

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 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MP3	CHEMNAME =	MAGNESIUM PERCHLORATE	PATHCODE = SS	
	MOLECW7 =	223.2	NBP =	
	DENSITY =	2210.	OENSTMP =	293.1
	CRHO =		LDUPRBN0 =	
	AVIS =		BVIS =	
	LTHCNTMP =		ACCN =	
	LQHTCPPT =		LOHTCPTM =	
	LHCLOBND =		SURFTENS =	
	SOLUBPT =	99.10	SOLUBTMP =	293.1
	BVP =		CVP =	
	BVCP =		CVCP =	
	HTFUSION =		LHTVAPOR =	
	HTREACTN =		HTPOLYWR =	
	TOXINHAL =		INHALCNC =	
	LATETOX =		ABFLWTMP =	
	WOLFRAC =			
			NFP =	
			SHPSTATE = S	
			LDLWRBND =	
			LVUPRBN0 =	
			BCON =	
			AHC =	
			SFTNTMP =	
			A =	-12.30
			VFUPRBN0 =	
			DVCP =	
			HTCOVSTN =	
			LOFLMLIM =	
			INHALTME =	
			MOLRATIO =	
			CRITTEMP =	
			ARHO =	
			LOVISPT =	
			LVLWRBND =	
			LTCUPBND =	
			BHC =	
			INTFTMP =	
			B =	0.3800
			VPLWRBND =	
			VHCUPBND =	
			HTSOLUN =	
			BURNRATE =	
			UPTOXLIM =	
			AIRFUEL =	
			CRITPRES =	
			BRHO =	
			LOVISTMP =	
			LQTHRCND =	
			LTCLOBND =	
			LHCUPBND =	
			INTFTMP =	
			AVP =	
			AVCG =	
			VHCLEND =	
			HTSOLUN =	
			BURNRATE =	
			UPTOXLIM =	
			FLMETEMP =	

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE, (U)
DEC 76 E ATKINSON

F/G 7/2

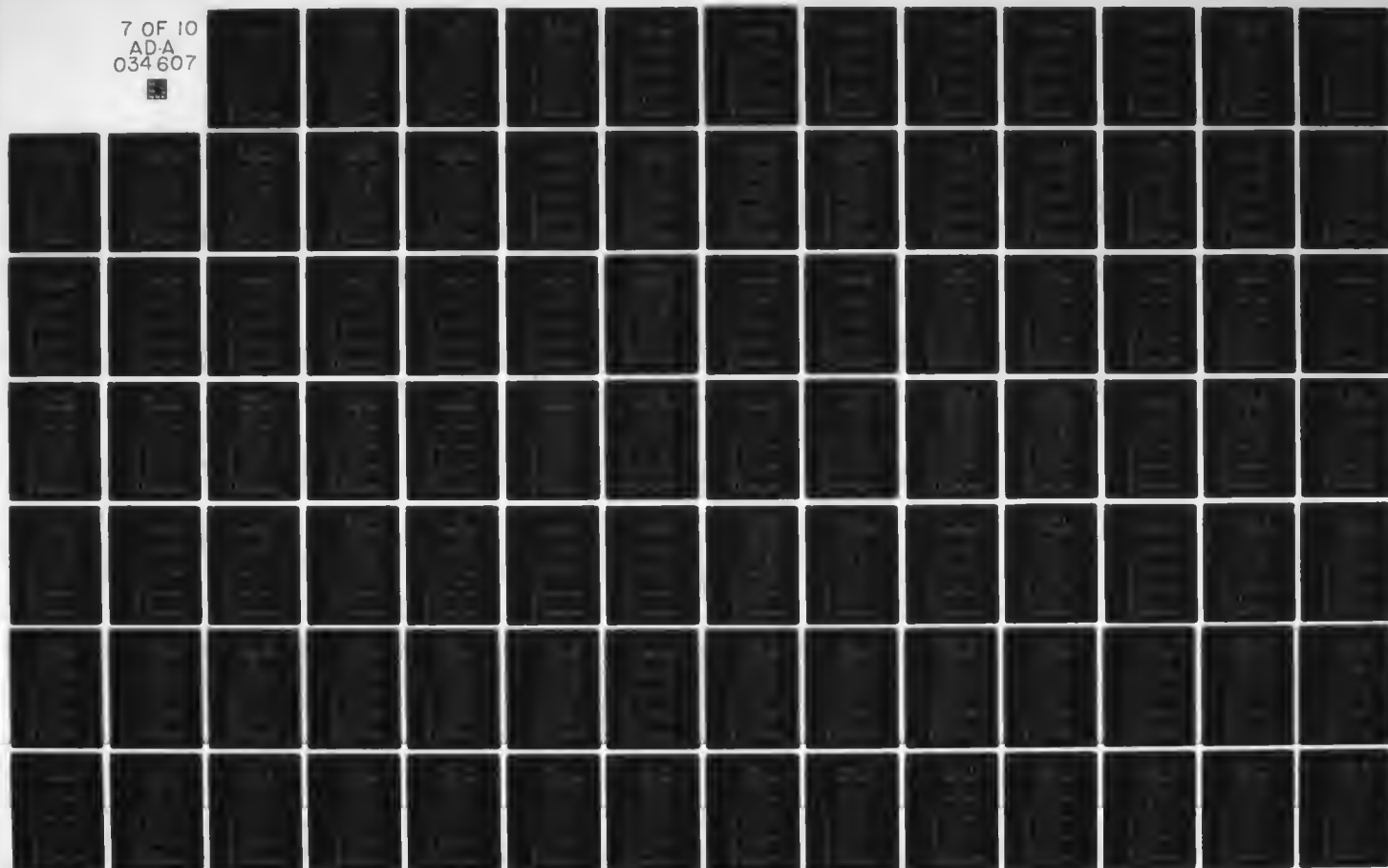
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DOT-CG-24655-A

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7 OF 10
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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MPD  CHEMNAME = METHYL PHOSPHONOTHIOIC DICHLORIDE(ANHYD)  PATHCODE = A  O

MOLEWT = 149.0  NBP =  DENSTEMP= 293.1  NFP = 247.6  CRITTEMP=
DENSITY = 1420.  LOUPREND=  BVIS =  ACON =  LOHTCPTM=  SURFTENS=  SOLUBTMP=  CVP = 1286.  CVCV =  LHTVAPOR=  HTFUSION=  HTREACTN=  TOXINHAL=  LATETOX =  MOLFRAC =
CRHO =  CRHO =  CRHO =  CRITPRES=
LOVISTMP=  LOVISTMP=  LOVISTMP=  BRHO =
LOTHRCND=  LQTHRCND=  LQTHRCND=  LOVISTMP=
LTCLOBND=  LTCLOBND=  LTCLOBND=  LTCLOBND=
LHCUPBND=  LHCUPBND=  LHCUPBND=  LHCUPBND=
INTFTTMP=  INTFTTMP=  INTFTTMP=  INTFTTMP=
AVP = 8.747  AVCP =
VHCLOBND=  VHCLOBND=  VHCLOBND=  VHCLOBND=
HTSOLUTN=  HTSOLUTN=  HTSOLUTN=  HTSOLUTN=
BURNRATE=  BURNRATE=  BURNRATE=  BURNRATE=
UPTOXLIM=  UPTOXLIM=  UPTOXLIM=  UPTOXLIM=
FLMETEMP=  FLMETEMP=  FLMETEMP=  FLMETEMP=
CRITTEMP=  CRITTEMP=  CRITTEMP=  CRITTEMP=
ARHO =  ARHO =  ARHO =  ARHO =
LOVISTMP=  LOVISTMP=  LOVISTMP=  LOVISTMP=
LVLARBND=  LVLARBND=  LVLARBND=  LVLARBND=
LTCUPBND=  LTCUPBND=  LTCUPBND=  LTCUPBND=
EHC =  EHC =  EHC =  EHC =
INTFTENS=  INTFTENS=  INTFTENS=  INTFTENS=
B =  B =  B =  B =
VPLWRBND=  VPLWRBND=  VPLWRBND=  VPLWRBND=
VHCUPBND=  VHCUPBND=  VHCUPBND=  VHCUPBND=
HTDECOMP=  HTDECOMP=  HTDECOMP=  HTDECOMP=
UPFLMLIM=  UPFLMLIM=  UPFLMLIM=  UPFLMLIM=
LOTOXLIM=  LOTOXLIM=  LOTOXLIM=  LOTOXLIM=
AIRFUEL =  AIRFUEL =  AIRFUEL =  AIRFUEL =
MOLRATIO=  MOLRATIO=  MOLRATIO=  MOLRATIO=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MPK  CHEMNAME = METHYL ISOPROPENYL KETONE, INHIBITED      PATHCODE = A  T  U  V  W
MOLECWT = 84.10      NBP = 371.0      NFP = 219.0      CRITTEMP=
DENSITY = 850.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO =
CRHO = 0.0000E+00(E) LOUPRNO= 303.1      LOLWRBNO= 273.1      LOVISPT= 293.1
AVIS = -11.61      (E) 8VIS = 1320.      (E) LVUPRNO= 298.1      LVLWRBNO= 298.1
LTHCNTMP= 293.1      ACON = 0.1512      (E) 8CON = 0.0000E+00(E) LTCUPBNO= 298.1
LOHTCPPT= 2010.      (E) LOHTCPTM= 293.1      AHC = 782.3      (E) 8HC = 4.187
LHCLOBND= 283.1      SURFTENS= 0.2600E-01(E) SFTNTEMP= 293.1      INTFTENS= 0.3000E-01(E) INTFTTMP= 293.1
SOLUBTMP=          A =          VFUPRNO= 373.1      VPLWRBNO= 283.1
BVP = 1884.      CVP = -0.1500      VFCUPRNO= 373.1      VFCUPBNO= 283.1
BVCP = 429.1      (E) CVCP = -0.2564      (E) DVCP = 0.5915E-04(E) VHCUPBNO= 250.0
HTFUSION=          LHTVAPOR= 0.4230E+06(E) HTCOYSTN= -0.3600E+08(E) HTOECOMP=
HTREACTN=          HTPOLYMR= -0.8800E+06(E) LOFLMLIM= 1.800      UPFLMLIM= 9.000
TCXINHAL=          INHALCNC=          INHALTME=          UPTOXLIM= 0.5000E-04
LATETOX =          ABFLMTMP=          MOLRATIO=          FLMETEMP=
MOLFRAC =

```

0.7849E-04

0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MPL CHEMNAME = MORPHOLINE

PATHCODE = A P Q

MOLECW = 87.12	NBP = 401.4	NFP = 268.4	CRITTEMP = 618.0	CRITPRES = 0.5470E+07
DENSITY = 1000.	OENSTEMP = 293.2	SHPSIATE=L	ARHO = 1323.	BRHO = -1.100
CRHO = 0.0000E+00	LOUPRBND = 323.2	LOLWRBND = 273.2	LOVISBND =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	8CON =	LTCUPBND =	LTCLOBND =
LOHTCPPT = 2000.	(E) LOHTCPTM = 293.0	(E) AHC = 2000.	(E) BHC =	LHCUPBND = 303.0 (E)
LHCLOBND = 283.0	(E) SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 9.939 (E)
BVP = 1978.	(E) CVP = 0.0000E+00(E)	VFUPRBND = 400.0	(E) VPLWRBND = 273.0	(E) AVCP = 0.1000E+06(E)
BVCP = 0.0000E+00(E)	CVCP = 0.0000E+00(E)	OVCP = 0.0000E+00(E)	VHCUPBND = 303.0	(E) VHCLOBND = 283.0 (E)
HTFUSION =	LHTVAPOR = 0.4254E+06	HTCOMBNTN = -0.2900E+08(E)	HTDECOMP =	HTSOLUTN = -0.3000E+05(E)
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.800	UPFLMLIM = 10.80	BURNRATE =
TOXINHAL = 20.00	INHALCNC = 20.00	INHALTME = 900.0	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LARETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MPT  CHEMNAME = METHYL PARATHION      PATHCODE = A  X  Y
MOLEWT = 263.2      NBP = 291.0      CRITTEMP=
DENSITY = 1220.      SHPSSTATE=L      ARHO =
CRHO = 0.0000E+00(E) LOUPRENO= 293.2      (E) LOVISPT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS = -18.80      (E) BVIS = 4000.      (E) LVUPRNO= 303.0      (E) LVUPRND= 303.0      (E) LOVRCNO=
LTHCNTMP=          ACON =          BCON =          LTCUPBNO=          LTCLOBND=
LOHTCPPT= 2600.      (E) LOHTCPTM= 298.0      (E) AHC = 2600.      (E) BHC =          (E) LHCUPBNO= 303.0 (E)
LHCLOBNO= 293.0      (E) SURFTENS= 0.3000E-01(E) SFTNTMP= 298.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 298.0 (E)
SOLUBPNT= 0.2500E-02      SOLUBTMP= 293.2      A =          B =          AVP =
BVP =          CVP =          VFUPRNO=          VPLWRBNO=          AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBNO=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOYSTN= -0.1670E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIN=          BURNRATE=
TOXINHAL= 100.0      INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-04(E) UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MPY  CHEMNAME = 1-METHYLPYRROLIDONE          PATHCODE = A P O
MOLEWT = 99.00      NBP = 475.0      NFP = 256.0      CRITTEMP=
DENSITY = 1030.     DENSTEMP= 299.1    SHPSTATE=L      ARHO = 1323.    (E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E) LDUPRND= 303.1    LDLRBND= 283.1    LOVISINT=
AVIS =             BVIS =             LVUPRND=          LVLWRB'D=
LTHCNTMP=          ACON =             BCON =            LTCUPBND=
LOHTCPPT=          LOHTCPTM=          AHC =             BHC =
LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =             B =
BVP =             CVP =             VFUPRND=          VPLWRBND=
BVCP =            CVCV =            DVCP =            VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN= -0.3020E+08 HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLW'LIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MRC   CHEMNAME = MERCURIC CHLORIDE          PATHCODE = SS
MOLEWT = 271.5      NBP      = 575.0      NFP      = 550.0      CRITTEMP=
DENSITY = 5400.     DENSTEMP= 293.1      SHPSTATE=S      ARHO      =
CRHO      =          LOUPRBND=          BVIS      =          LVUPRBND=          LOVISPNT=
AVIS      =          ACON      =          LOHTCPTM=          SURFTENS=          LQTHRCND=
LTHCNTMP=          LOHTCPTM=          SURFTENS=          SOLUBTMP= 293.1      A      = -37.47      B      = 0.1500      LTCLOBNO=
LQTHCPPT=          LHCLOBND=          SOLUBTMP= 6.500      CVP      = -0.1500      VUPRBND= 332.1      VPLWRBND= 284.1      LHCUPBND=
LHCLOBND=          SOLUBTMP= 6.500      CVP      = -0.1500      VUPRBND= 332.1      VPLWRBND= 284.1      B      = 0.1500      AVP      = 12.82
BVP      = 4358.     CVCP      =          CVCP      =          LHTVAPOR=          HTFUSION=          HTREACTION=          TOXINHAL= 0.4000E-02      INHALCNC=
LAFETOX =          ABFLMTMP=          MOLRATIO=          MOLFRAC =          HTOECONP=          UPFLMLIM=          LOTOXLIM=          UPTOXLIM= 0.5000E-04
BURNRATE=          HTSOLUTN=          VHCLOENO=          AVCP      =          VHCLOENO=          HTSOLUTN=          BURNRATE=          UPTOXLIM= 0.5000E-04
FLMETEMP=          AIRFUEL =          FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MRN      CHEMNAME = MERCUROUS NITRATE          PATHCODE = II
MOLEWT = 280.6      NBP =          NFP =          CRITTEMP=
DENSITY = 4780.      DENSTEMP= 293.1      SHPSTATE=S      ARHO =
CRHO =          LDUPRND=          LDWRND=          LOVISPT=
AVIS =          BVIS =          LVUPRND=          LVLWRB'D=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=
LOHTCPPT=          LOHTCPTM=          AHC =          BHC =
LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =          B =
BVP =          CVP =          VFUPRND=          VPLWRB'D=
BVCP =          CVCP =          DVCP =          VHCUPB'D=
HTFUSION=          LHTVAPOR=          HTCONSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          LPFLMLIM=
TOXINHAL= 0.4000E-02      INHALCNC=          INHALTIME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LOVISIMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
MRR  CHEMNAME = MERCURIOS CHLORIDE          PATHCODE = 11
MOLEWT = 236.1      NBP =
DENSITY = 7150.     DENSTEMP= 293.1
CRHO =
AVIS =
LTHCNTMP=
LHCLOBND=
SOLUBPNT=
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL= 0.4700E-02  INHALCNC=
LATETOX =
MOLFRAC =

NFP =
SHPSRATE=S
LDLWRBND=
LVUPRBND=
BCON =
AHC =
SFNTTEMP=
A =
VFUPRBND=
DVCP =
HTCOMBIN=
LOFLMLIM=
INHALTME=
MOLRATIO=

CRITTEMP=
BRHO =
LOVISTMP=
LOTHRCNO=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04  0.5000E-03
FLMETEMP=
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MSA  CHEMNAME = METHANEARSONIC ACID, SODIUM SALTS          PATHCODE = SS
MOLEWT = 200.0 (E) NBP = NFP = 332.0
DENSITY = 1500. DENSTEMP = 293.2 SHPSTATE=L
CRHO = LDUPRND=
AVIS = BVIS = LVUPRND=
LTHCNTMP= ACON = BCON = LTCUPBND=
LOHTCPPT= LOHTCPTM= AHC = EHC =
LHCLOBND= SURFTENS= SFTNTMP= INTFTEMP=
SOLUBPNT= SOLUBTMP= A = B =
BVP = CVP = VFUPRND= VPLWRBND=
BVCP = CVCP = DVCP = VHCUPBND=
HTFUSION= LHTVAPOR= HTCOMSTN= HTDECOMP=
HTREACTN= HTPOLYMR= LOFLMLIM= UPFLWLIM=
TOXINHAL= INHALCNC= INHALTME= LOTOXLIM=
LAFETOX = ABFLMTMP= MOLRATIO= UPTOXLIM=
MOLFRAC =                                FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MSF  CHEMNAME = MERCURIC SULFIDE                      PATHCODE = II
MOLEWT = 232.7      NEP =      NFP =      CRITTEMP=
DENSITY = 8000.      DENSTEMP= 293.1      ARHO =
CRHO =      LOUFREND=      BVIS =      LOUWRSNO=
AVIS =      ACON =      LOHTCPTM=      BHC =
LTHCNTMP=      SURFTENS=      SFTNTEMP=      INTFTEMP=
LHCLOBND=      SOLUBTMP=      A =      B =
SOLUBPNT=      CVP =      VFLWRBND=      VPLWRBND=
BVCP =      CVCP =      LHTVAPOR=      VHCLOBND=
HTFUSION=      HTPOLYMR=      HTCOMSTN=      HTSOLUTN=
HTREACTN=      INHALCNC=      LOFLMLIM=      UPFLMLIM=
TOXINHAL= 0.4800E-02      ABFLMTMP=      INHALTME=      LOTOXLIM=
LATETOX =      MOLFRAC =      MO'RATIO=      AIRFUEL =
FLMETEMP=

```

PATHCODE = A P O T U

MOLECW	98.20	NBP	=	403.0	NFP	=	227.0	CRITTEMP	=	CRITPRES	=
DENSITY	853.0	DENSTEMP	=	293.1	SHPSRATE=L	=		ARHC	=	BRHO	= -1.000
CRHO	=	LDUPRBND	=	313.1	LDLWRBND	=	263.1	LOVISPLT	=	LOVISTMP	= 293.1
AVIS	=	(E) BVIS	=	870.0	(E) LVUPRBND	=	303.1	LVLWRBND	=	LOTHRCND	= 0.1512
LTHCNTMP	=	ACON	=	0.1512	(E) BCON	=	0.0000E+00(E)	LTCUPBND	=	LTCLOBND	= 278.1
LQHTCPT	=	LOHTCPTM	=	293.1	AHC	=	2177.	BHC	=	LHCUPBND	= 373.1
LHCLOBND	=	SURFTENS	=	0.2290E-01	SFTNTMP	=	293.1	INTFTENS	=	INTFTTMP	=
SOLUBPNT	=	SOLUBTMP	=	293.1	A	=	46.97	E	=	AVP	= 10.27
BVP	=	CVP	=	-0.1500	VFUPPBND	=	353.1	VPLWRBND	=	AVCP	=
BVCP	=	CVCP	=		DVCP	=		VHCUPBND	=	VHCLOBND	=
HTFUSIGN	=	LHTVAPOR	=	0.3700E+06	HTCOYSTN	=	-0.3300E+08	HTDECOMP	=	HTSOLUTN	=
HTREACTN	=	HTPOLYMR	=		LOFLMLIM	=		UPFLMLIM	=	BURNRATE	= 0.7014E-04
TOXINHAL	=	INHALCNC	=		INHALTME	=		LOTOXLIM	=	UPTOXLIM	= 0.5000E-03
LAETOX	=	ABFLWTMP	=		MOLRATIO	=		AIRFUEL	=	FLMETEMP	=
MOLFRAC	=		=			=			=		=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MSR      CHEMNAME = ALPHA-METHYLSTYRENE      PATHCODE = A   T   U
MOLECWt = 118.2      NBP      = 438.0      NFP      = 250.0      CRITTEMP= 654.9      CRITPRES= 0.3410E+07
DENSITY = 910.0      OENSTEMP= 293.1      SHPSSTATE=L      ARHO      = 1174.      BRHO      = -0.9000
CRHO      = 0.0000E+00      LOUPRENO= 303.1      LOLWRSND= 273.1      LOVISPAT= 0.9400E-03      LQVISTMP= 293.1
AVIS      =      BVIS      =      LVUPRSD=      LVLWRBND=      LQTHRCNO=
LTHCNTMP=      ACON      =      BCON      =      LTCUPBND=      LTCLOBNO=
LQHTCPPT=      LQHTCPTM=      AHC      =      SHC      =      LHCUPBNO=
LHCLOBND=      SURFIENS= 0.3388E-01      SFTNTEMP= 293.1      INTFIEIS=      INTFTTMP=
SOLUBPNT= 0.6000E-01      SOLUBTMP= 298.1      A      =      B      =      AVP      = 10.25
BVP      = 2300.      CVP      = -0.1500      VFUPRSD= 438.1      VPLWRBND= 293.1      AVCP      =
BVCP      =      CVCP      =      OVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LMTVAPOR= 0.3260E+06      HTCOYSTN= -0.4110E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.900      BURNRATE=
TOXINHAL= 100.0      INHALCNC= 100.0      INHALTME= 1800      LOTCXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MTA CHEVNAME = METHYLAMINE

PAGE CODE = A B

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MTB      CHEMNAME = METHYL BROMIDE
      MOLEWT = 94.95      NBP = 276.8      PATHCODE = A      B      C      I      J
      DENSITY = 1680.      DENSTEMP = 293.2      SHPSRATE=L      CRITTEMP = 464.D
      CRHO = D.0000E+00      LOUPRNO = 353.2      LOLWRNO = 273.2      LQVISTMP =
      AVIS =      8VIS =      LVUPRNO =      LVLWRBND =      LQTHRCNO =
      LTHCNTMP =      ACON =      BCON =      LTCUPBND =      LTCLOBND =
      LQHTCPPT = 833.2      LQHTCPTM = 293.2      AHC = 714.6      BHC = 0.4187      LHCUPBNO = 313.2
      LHCLOBND = 233.2      SURFTENS = D.2450E-01      SFTNTEMP = 288.2      INTFTENS =      INTFTTMP =
      SOLUBPNT = D.9000E-01      SDLUBTMP = 293.2      A =      B =      AVP = 9.085
      BVP = 986.6      CVP = -34.86      VFUPRNO = 326.2      VPLWRBND = 215.2      AVCP = 0.1721E+05
      BVCP = 92.74      CVCP = -D.2721E-01      DVCP = 0.0000E+00      VHCUPBND = 6DD.D      VHCLDBNO = 250.0
      HTFUSION =      LHTVAPDR = D.2500E+06      HTCOWSTN = -0.7415E+07      HTSOLUTN =
      HTPOLYMR =      LOFLMLIM = 10.00      HTDECON =      BURNRATE =
      TOXINHAL = 15.00      INHALCNC = 20.00      INHALTME = 300.D      LOTOXLIM =      UPTDXLIM =
      LATETOX =      ABFLMTMP =      MDLRATID =      AIPFUEL =      FLMETEMP =
      MOLFRACTION =

```

PATHCODE	A	B	C	D	E	F	G
1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1
32	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1
34	1	1	1	1	1	1	1
35	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1
37	1	1	1	1	1	1	1
38	1	1	1	1	1	1	1
39	1	1	1	1	1	1	1
40	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1
42	1	1	1	1	1	1	1
43	1	1	1	1	1	1	1
44	1	1	1	1	1	1	1
45	1	1	1	1	1	1	1
46	1	1	1	1	1	1	1
47	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1
49	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1
51	1	1	1	1	1	1	1
52	1	1	1	1	1	1	1
53	1	1	1	1	1	1	1
54	1	1	1	1	1	1	1
55	1	1	1	1	1	1	1
56	1	1	1	1	1	1	1
57	1	1	1	1	1	1	1
58	1	1	1	1	1	1	1
59	1	1	1	1	1	1	1
60	1	1	1	1	1	1	1
61	1	1	1	1	1	1	1
62	1	1	1	1	1	1	1
63	1	1	1	1	1	1	1

MOLECWt =	50.49	=	NBP	=	249.0	=	NFP	=	175.5	=	CRITTEP=	416.8	=	CRITPRES=	0.6680E+07
DENSITY =	997.0	=	DENSTEMP=	244.2	=	SHPSTATE=L	=	ARHO	=	1446.	=	BRHO	=	-1.800	
CRHO =	0.0000E+00	=	LDUPRBD=	313.2	=	LDLWRBD=	243.2	=	LQVISP,T=	0.3100E-03	=	LQVISTMP=	249.2		
AVIS =	-9.668	=	BVIS	=	396.0	=	LVUPRBD=	353.2	=	LVLWRBD=	233.2	=	LQTHRCND=		
LTHCNTMP=		=	ACON	=		=	BCON	=		=	LTCUPBD=		LTCLOBND=		
LQHTCPT=	1608.	=	LQHTCPT=	293.2	=	AHC	=	1055.	=	EHC	=	1.884	LHCUPBD=	373.2	
LHCLOBND=	223.2	=	SURFTENS=	0.1620E-01	=	SFTNTMP=	293.2	=	INTFTE,S=	0.5000E-01(E)	=	INTFTTMP=	249.0	(E)	
SOLUBPNT=	0.6000	=	SOLUBTMP=	293.2	=	A	=		=	E	=	AVP	=	9.606	
BVP =	1148.	=	CVP	=	0.4004E-01	=	VFLWRBD=	293.2	=	VPLWRBD=	223.2	=	AVCP	=	0.1691E+05
BVCP =	84.99	=	CVCP	=	-0.1675E-01	=	DVCP	=	0.0000E+00	=	VHCUPBD=	600.0	VHCLOBND=	250.0	
HTFUSIGN=		=	LHTVAPOR=	0.4241E+06	=	HTCO:STN=	-0.1230E+08	=	HTDECOVE=		=	HTSOLUTN=			
HTREACTN=		=	HTPOLYMR=		=	LOFLMLIM=	8.100	=	UPFLMLIM=	17.20	=	BURNRATE=	0.3667E-04		
TOXINHAL=	100.0	=	INHALCNC=	100.0	=	INHALTME=	300.0	=	LOTOXLIM=		=	UPTOXLIM=			
LATEFOX =		=	ABFLMTMP=		=	MOLRATIO=	0.8333	=	(E) AIRFUEL =	4.078	=	(E) FLMETEMP=			
MOLFRAC =		=			=			=			=				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MTH  CHEMNAME = METHANE
      MOLEWT = 16.04      NBP = 111.7      PATHCODE = A B C O E F G
      DENSITY = 422.0     DENSTEMP= 113.2     SHPSTATE=L      CRITTEMP= 190.7      CRITPRES= 0.4600E+07
      CRHO = 0.0000E+00   LOUPRBN0= 123.2     LOLWRBND= 93.16     LLOVISPNT= 0.1350E-03  LOVISTMP= 113.2
      AVIS = -12.71      BVIS = 430.0     LVUPRBN0= 153.2     LVLWRBND= 93.16      LOTHRCND=
      LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
      LQHTCPPT= 3517.    LQHTCPTM= 113.2     AHC = 2491.         EHC = 9.211          LHCUPBND= 143.2
      LHCLOBNO= 93.16    SURFTENS= 0.1400E-01  SFTNTEMP= 112.2     INTFTENS= 0.5030E-01(E) INTFTTMP= 112.0 (E)
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 8.737
      BVP = 389.9        CVP = -7.160       VFUPRBN0= 123.2     VPLWRBND= 93.16      AVCP = 0.2504E+05
      BVCP = 25.33       CVCP = 0.3559E-01  DVCP = 0.0000E+00   VHCUPBND= 600.0      VHCLOBNO= 250.0
      HTFUSIGN=          LHTVAPOR= 0.5104E+06   HTCOMSTN= -0.5005E+08  HTDECONP=          HTSULUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM= 5.000     UPFLMLIM= 15.00      BURNRATE= 0.2083E-03
      TOXINHAL=          INHALCNC=          INHALTME=          TOXOLIM=
      LATETOX =          ABFLMTMP= 2339.      (E) MOLRATIO= 1.000  (E) AIRFUEL = 17.16  (E) FLWETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MTO CHEMNAME = MOLYBOIC TRIOXIDE PATHCODE = II

MOLEWT = 143.9	MBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 4690.	OENSTEMP = 293.1	SHPS:ATE=S	ARHO =	BRHO =
CRHO =	LDUPRBNO =	LOLWRBND =	LOVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTMCTMP =	ACON =	BCCN =	LTCUPBND =	LTCLOBNO =
LOHTCPPT =	LOHTCPTM =	AHC =	LHCUPBND =	LHCUPBND =
LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTEMP =	INTFTEMP =
SOLUBPNT = 0.2300	SOLUBTMP = 296.1	A = -2.732	B = 0.1000E-01	AVP =
BVP =	CVP =	VFUPRBNO =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBNO =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTOECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLYLM =	UPFLYLM =	BURNRATE =
TOXINHAL = 0.7786	INHALCNC =	INHALTNE =	LOTOXLM = 0.5DDDE-04	UPTOXLM = 0.500DE-03
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MTS  CHEMNAME = METHYLTRICHLOROSILANE      PATHCODE = A  O
MOLEWT = 149.5      NBP = 339.6      CRITTEMP = 183.0      CRITPRES =
DENSITY = 1270.      DENSTEMP = 298.1      SHPSTATE=L      ARHO = 1568.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRBND = 303.1      LDWRSND = 273.1      LQVISPT = 0.3200E-02(E) LQVISTMP = 293.1
AVIS = -12.91      (E) BVIS = 2100.      (E) LVUPRSND = 298.1      LVLWRBND = 283.1      LQTHRCND = 0.1512      (E)
LTHCNTMP = 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND = 298.1      LTCLOBND = 278.1
LQHTCPPT = 1465.      (E) LQHTCPTM = 293.1      AHC = 1465.      (E) BHC = 0.0000E+00(E) LMCUPBND = 303.1
LHCLOBND = 283.1      SURFTENS = 0.2800E-01(E) SFTNTMP = 293.1      INTFTENS =
SOLUBTMP =
BVP = 1627.      CVP = -0.1500      VFUPRSND = 323.1      VPLWRBND = 253.1      AVCP =
BVCP =
HTFUSION =
LHTVAPOR = 0.2080E+06      HTCOMSTN = -0.7000E+07(E) HTDECORP =
HTPOLYMR =
TOXINHAL =
LAFETOX =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MTT CHEMNAME = METHYL ACETATE

PATHCODE = A P Q R S

MCLEWT = 74.10	NBP = 330.2	NFP = 174.7	CRITTEMP=	506.9	CRITPRES=	0.4600E+07
DENSITY = 927.0	OENLTEMP= 293.1	SHPSIATE=L	ARHO =	1337.	BRHO =	-1.400
CRHO = 0.0000E+00	LOUPRNO= 373.1	LOLWRBNO= 253.1	LOVISPLT=	0.3700E+03	LQVISTMP=	293.1
AVIS = -11.27	BVIS = 988.0	LVUPRBNL= 373.1	LVLWRBND=	273.1	LOTHRCNO=	0.1744
LTHCNTMP= 293.1	ACON = 0.3195	BCON = -0.4885E-03	LTCUPBND=	353.1	LTCLOBNO=	273.1
LQHTCPPT= 2085.	LOHTCPTM= 293.1	AHC = 1410.	BHC =	2.303	LHCUPBNO=	313.1
LHCLOBND= 263.1	SURFTENS= 0.2400E-01	SFTNTEMP= 293.1	INTFTENS=	0.3000E+01(E)	INTFTIMP=	293.1
SOLUBPNT= 24.35	SOLUBTMP= 293.1	A =	B =		AVP =	10.29
BVP = 1744.	CVP = -0.1500	VFUPRBNNO= 333.1	VPLWRBND=	273.1	AVCP =	0.2506E+05
BVCP = 180.9	CVCP = 0.0000E+00	OVCP = 0.0000E+00	VHCUPBND=	600.0	VHCLOBNO=	250.0
HTFUSION=	LHTVAPOR= 0.4100E+06	HTCOGISTN= -0.2150E+08	HTOECOMP=		HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLMLIM= 3.100	UPFLMLIM=	16.00	BURNRATE=	0.6179E-04
TOXINHAL= 200.0	INHALCNC= 400.0	INHALTME= 300.0	LOTOXLIM=	0.5000E+02	UPTOXLIM=	0.1500E-01
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =		FLMETEMP=	
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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MVK  CHEMNAME = METHYL VINYL KETONE
      MOLECWT = 70.10      NBP = 354.6      PATHCODE = A P O R S
      DENSITY = 864.0      OENSTEMP = 293.1      NFP = 266.0      CRITTEMP =
      CRHO = 0.0000E+00(E) LOUPRENO = 303.1      SHPSTATE=L      ARHO = 1157.      (E) BRHO = -1.000      (E)
      AVIS = -11.61      (E) BVIS = 1320.      (E) LVUPRSNO = 298.1      LOLWRSNO = 273.1      LOVISPR,T = 0.8200E-03(E) LOVISTMP = 293.1
      LTHCNTMP = 293.1      (E) ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND = 298.1      LVLWRB,D = 283.1      LOTHRCNO = 0.1512      (E)
      LOHTCPPT = 1675.      (E) LOHTCPTM = 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND = 298.1      LTCLOBNO = 283.1
      LHCLOBND = 278.1      SURFTENS = 0.2400E-01(E) SFTNTMP = 293.1      INTFTENS = 0.0000E+00(E) LHCUPBND = 298.1      LTCLOBNO = 283.1
      SOLUBTMP = 293.1      A = 1675.      (E) B = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND = 298.1      LTCLOBNO = 283.1
      BVP = 1765.      CVP = -0.1500      VFUPBND = 354.1      VPLWRBND = 293.1      AVCP = 7903.      (E)
      BVCP = 321.4      (E) CVCP = -0.1845      (E) OVCP = 0.4086E-04(E) VHCUPBND = 550.0      VHCLOBNO = 250.0
      HTFUSION = 0.4730E+06(E) HTCONSTN = -0.3400E+08(E) HTDECOMP = 15.60      HTSOLUTN = 0.7515E-04
      HTREACTN = 0.1060E+07      LOFLMLIM = 2.100      UPFLMLIM = 15.60      BURNRATE = 0.7515E-04
      TOXINHAL = 0.1060E+07      INHALTIME = 2.100      LOTOX LIM = 0.5000E-04(E)
      LATETOX = 0.1060E+07      ABFLMTMP = 2.100      AIRFUEL = 0.5000E-04(E)
      MOLFRAC = 0.1060E+07      MOLRATIO = 2.100      FLMETEMP = 0.5000E-04(E)

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PROPERTY: FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NAA CHEMNAME = NITRILOTRIACETIC ACID AND SALTS

PATHCODE = SS

MOLECW =	1000.	(E) DENSITY =	293.1	NFP =		CRITPRES =	
DENSITY =	1000.	(E) DENSITY =	293.1	SHPS:ATE=S		BRHO =	
CRHO =		LDUPRND =		LDLWRBND =		LQVISTMP =	
AVIS =		BVIS =		LVUPRND =		LQTHRCND =	
LTHCNTMP =		ACON =		BCON =		LTCLOBND =	
LQHTCPPT =		LQHTCPTM =		AHC =		LHCUPBND =	
LHCLOBND =		SURFTENS =		SFTNTMP =		INTFTIMP =	
SOLUBPNT =	40.00	SOLUSTMP =	298.1	A =	40.00	AVP =	
BVP =		CVP =		VFUPRND =		AVCP =	
BVCP =		CVCP =		DVCP =		VHCLOBND =	
HTFUSION =		LHTVAPOR =		HTCOMSTN =		HTSOLUTN =	
HTREACTN =		HTPOLYMR =		LOFLMLIM =		BURNRATE =	
TOXINHAL =		INHALCNC =		INHALTME =		UPTOXLIM =	0.5000E-02
LATETOX =		ABFLMTMP =		MOLRATIO =		FLMETEMP =	
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NAB CHEMNAME = NABAM

PATHCODE = SS

MOLEWT = 256.3	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1140.	DENSTEMP= 293.1	SHPSRATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LOHTCPTM=	AHC =	LHCUPBND=	LHCLOBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTTMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =	AVP =
BVP =	CVP =	VFUPRBND=	AVCP =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOWSTN=	HTSOLUTN=	HTSOLUTN= 0.0000E+001E
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=	UPTOXLIM= 0.5000E-03
LATEFOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
NAL    CHEMNAME = 4-NITROANILINE          PATHCODE = II
MOLEWT = 138.1      NBP      = 609.0      NFP      = 419.0      CRITTEMP=
OENSITY = 1440.     DENSTEMP= 293.1      SHPSTATE=S      ARHO      =
CRHO      =          LOUPRBNO=          BVIS      =          BCON      =          LTCUPBND=
AVIS      =          ACON      =          LQHTCPTM=          SURFTENS=          SOLUBTMP=
LTHCNTMP=          LQHTCPNT=          LHCLOBNO=          SOLUBPNT=          BVP      =
LQHTCPNT=          LHCLOBNO=          SOLUBTMP=          CVP      =          BVCP      =
LHCLOBNO=          SOLUBTMP=          CVP      =          CVC      =          LHTVAPOR=
HTFUSION=          HTREACTN=          TOXINHAL= 1.000      INHALCNC=          ABFLMTMP=
LAFETOX =          MOLFRAC =
*****
CRITPRES=
BRHO      =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      =
AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=
0.5000E-03
LOTOXLIM=
AIRFUEL =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NAO CHEMNAME = 1-NAPHTHYLAMINE PATHCODE = 11

MOLECW = 143.2	NBP =	573.0	NFP =	322.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 1120.	DENSTEMP =	298.1	SHSTATE = S		ARHO =	BRHO =
CRHO =	LDUPRBND =		LQWRBND =		LQVISPNT =	LOVISTMP =
AVIS =	BVIS =		LVUPRBND =		LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =		BCON =		LTCUPBND =	LTCLOBNO =
LQHTCPPT =	LQHTCPTM =		AHC =		BHC =	LHCUPBND =
LHCLOBNO =	SURFTENS =		SFTNTEMP =		INTFTENS =	INTFTTMP =
SOLUBPNT = 0.1700	SOLUBTMP =	293.1	A =		B =	AVP =
EVP =	CVP =		VFUPRBNO =		VPLWRBND =	AVCP =
BVCP =	CVCP =		OVCP =		VHCUPBND =	VHCLOBND =
HTFUSIGN =	LHTVAPOR =		HTCONSTN =	-0.3554E+08	HTOECDDVP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =		LOFLMLIM =		UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =		INHALTME =		LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

NAS CHEMNAME = NICKEL AMMONIUM SULFATE

PATHCODE = SS

MOLEWT = 395.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1920.	DENSTEMP= 293.1	SHPSRATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPRSNO=	LVLWRBND=	LOTHRCNO=
LTHCNTMP=	ACCN =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBNO=
LHCLOBNO=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPAT= 8.450	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBNO=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTOECONP=	HTSOLUTN=
HTREACTION=	HTPOLYMR=	LOFLTLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.5700E-01	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LATEIOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NCL CHEMNAME = NICKEL CHLORIDE PATHCODE = SS

MOLECWt =	237.7	NBP =		CRITPRES=	
DENSITY =	3550.	DENSTMP=	288.1	BRHO =	
CRHO =		LDUPRBD=		LQVISTMP=	
AVIS =		BVIS =		LQTHRCND=	
LTHCNTMP=		ACCN =		LTCLOBND=	
LQHTCPPT=		LQHTCPTM=		LHCUPBND=	
LHCLOBND=		SURFTENS=		INTFTTMP=	
SOLUBPNT=	62.00	SOLUBTMP=	293.1	AVP =	
BVP =		CVP =		AVCP =	
BVCP =		CVCP =		VHCLOBND=	
HTFUSION=		LHTVAPOR=		HTSOLUTN=	0.2100E+05
HTREACTN=		HTPOLYMR=		BURNRATE=	
TOXINHAL=	0.9400E-01	INHALCNC=		UPTOXLIM=	0.5000E-02
LAETOX =		ABFLMTMP=		FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NCN CHEMNAME = NICKEL CYANIDE

PATHCODE = II

MOLECW = 111.0	(E) NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2400.	DENSTEMP = 298.1	SHPSSTATE = S	ARHC =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTERS =	INTFTTMP =
SOLUBPNT = 0.6000E-02	SOLUBTMP = 291.1	A =	B =	AVP =
BVP =	CVP =	VFUPREND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOXSTN =	HTDECCVP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLWLIM =	BURNRATE =
TOXINHAL =	INHALCNC = 1.010	(E) INHALTIME = 1800.	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NCS CHEMNAME = NICOTINE SULFATE

PATHCODE = SS

MOLEWT = 422.5	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1150.	DENSTEMP= 293.1	SHPSATE=S	ARHO =	BRHO =
CRHO =	LDUPRBN=	LDLWRBN=	LOVISPT=	LOVISMP=
AVIS =	BVIS =	LVUPRBN=	LVLWRBN=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	SHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRBN=	VPLWRBN=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOWSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTIME=	LOTOXLM=	UPTOXLM= 0.500CE-04/E
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NCT CHENNAME = NAPHTHA COAL TAR PATHCODE = A T U V W
 MOLECW = NBP = 366.0 (E) NFP = CRITTEMP = CRITPRES =
 DENSITY = 860.0 (E) DENSTEMP = 293.2 SHPSRATE=L ARHO = 780.0 (E) BRHO = 0.0000E+00(E)
 CRHO = 0.0000E+00(E) LDUPRND = 313.0 (E) LDLWRND = 283.0 (E) LOVISPAT = 0.5800E-02(E) LOVISTMP = 293.0 (E)
 AVIS = -18.80 (E) BVIS = 4000. (E) LVUPRND = 313.0 (E) LVLWRND = 283.0 (E) LOTHRND = 0.1500 (E)
 LTHCNTMP = 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND = 313.0 (E) LTCLOBND = 283.0 (E)
 LOHTCPPT = 2000. (E) LOHTCPTM = 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND = 313.0 (E)
 LHCLOSNO = 283.0 (E) SURFTENS = 0.2000E-01(E) SFTNTEMP = 293.0 (E) INTFTENS = 0.4500E-01(E) INTFTTMP = 293.0 (E)
 SOLUBPNT = SOLUBTMP = A = B = AVP = 9.641 (E)
 BVP = 2086. (E) CVP = 0.0000E+00(E) VFLUPRND = 450.0 (E) VPLWRBND = 300.0 (E) AVCP = 0.1990E+05(E)
 BVCP = 1073. (E) CVCP = -0.6010 (E) DVCP = 0.0000E+00(E) VHCUPBND = 500.0 (E) VHCLOBND = 300.0 (E)
 HTFUSION = LHTVAPOR = 0.2350E+06(E) HTCOMSTN = -0.4240E+08(E) HTDECOMP = HTSOLUTN =
 HTREACTN = HTPOLYMR = LOFLMLIM = UPFLMLIM = BURNRATE = 0.6667E-04
 TOXINHAL = 100.0 INHALCNC = 75.00 INHALTME = 1800. LOTOXLIM = 0.5000E-04 UPTOXLIM = C.5000E-03
 LATETOX = ABFLMTMP = MOLRATIO = FLMETEMP =
 MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NFB	CHEMNAME = NICKEL FLUOROBORATE	PATHCODE = A P	
MOLECW =	NBP =	NFP =	CRITPRES =
DENSITY = 1500.	OENSTEMP = 293.1	SHPSIATE = L	BRHO =
CRHO =	LOUPRBND =	LDLWPSND =	LOVISTMP =
AVIS =	BVIS =	LVUPRSND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LOHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VFUPRSND =	AVCP =
SVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSIGN =	LHTVAPOR =	HTCOASTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
NFM      CHEMNAME = NICKEL FORMATE      PATHCODE = SS
MOLECWt = 184.8      NBP =
DENSITY = 2150.      DENSTEMP= 293.1      NFP =
CRHO =
AVIS =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT= 3.250      SOLUBTMP= 293.1      A = 0.3185      CRITTEMP=
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL= 0.1200      INHALCNC=
LATETOX =
MOLFRAC =
      CRITPRES=
      BRHO =
      LQVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.5000E-02
      FLMETEMP=
      CRITTEMP=
      ARHO =
      LOVISPT=
      LVLWRBND=
      LTCUPBND=
      BHC =
      INTFTENS=
      B = 0.1000E-01
      VPLWRBND=
      VHCUPBND=
      HTDECOMP=
      UPFLMLIM=
      LOTOXLIM= 0.5000E-03
      AIRFUEL =
      MOLRATIO=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
NHX  CHEMNAME = NEOHEXANE
      MOLECW = 86.20      NBP = 322.9      NFP = 173.3      CRITTEMP = 488.8      CRITPRES = 0.308DE+07
      DENSITY = 649.0      OENSTEMP = 293.1      SHPSTATE=L      ARHO = 924.2      BRHO = -1.000
      CRHO = 0.0000E+00      LDUPRBD = 303.1      (E) LVUPRBD = 303.1      LOVISPNT = 0.375DE-03      LQVISTMP = 293.1
      AVIS = -10.78      (E) BVIS = 848.0      (E) BCON = 0.0000E+00(E)      LTCUPBND = 303.1      LOTHRCND = 0.1512      (E)
      LTHCNTMP = 293.1      ACON = 0.1512      (E) LQHTCPTM = 288.1      SURFTENS = 0.1630E-01      SFTNTEMP = 293.1      INTFTENS = 0.350DE-01(E)      INTFTTMP = 293.1
      LQHTCPPT = 2160.      LQHTCPTM = 288.1      AHC = 954.0      (E) BHC = 4.187      (E) LHCUPBND = 303.1      AVP = 8.880
      LHCLOBND = 273.1      SURFTENS = 0.1630E-01      SOLUBTMP = 1081.      CVP = -43.85      VFUPRBD = 333.1      VPLWRBND = 243.1      AVCP = 0.2198E+05
      SOLUBPNT = 273.1      SURFTENS = 0.1630E-01      CVCV = 402.4      CVCV = 0.0000E+00      DVCV = 0.0000E+00      VHCUPBND = 400.0      VHCLOBNO = 250.0
      BVP = 1081.      CVP = -43.85      LHTVAPOR = 0.3050E+06      HTCOMBTN = -0.4489E+08      HTOECOMP = 7.700      BURNRATE = 0.1536E-03
      HTFUSION = 402.4      LHTVAPOR = 0.3050E+06      HTPOLYMR = 1.200      UPFLMLIN = 1.200      UPTOXLIN = 0.1536E-03
      HTREACTN = 402.4      LHTVAPOR = 0.3050E+06      INHALCNC = 1.200      LOTOXLIN = 1.200      FLMETEMP = 0.1536E-03
      TOXINHAL = 402.4      LHTVAPOR = 0.3050E+06      ABFLMTMP = 1.200      AIRFUEL = 1.200
      LATETOX = 402.4      LHTVAPOR = 0.3050E+06      MOLFRAC = 1.200
      MOLFRAC = 1.200

```


EM OF UNITS

CHEMNAME = NICKEL ACETATE

PATHCODE = SS

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
NKC  CHEMNAME = NICKEL CARBONYL          PATHCODE = A  X  Y
MOLECW = 170.7  NBP = 316.0  NFP = 248.0  CRITTEMP=
DENSITY = 1320.  DENSTEMP= 293.1  SHPSATE=L  ARHO = 1613.  (E) BRHO = -1.000  (E
CRHO = 0.0000E+00(E) LDUPRND= 298.1  LDLWRND= 278.1  LOVISPNT= 0.6500E-03  LOVISTMP= 291.1
AVIS = -10.33  (E) BVIS = 870.0  (E) LVUPRND= 298.1  LVLWRND= 278.1  LOTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCLOBND=
LQHTCPPT= 1214.  LQHTCPTM= 300.1  AHC = 1026.  BHC = 0.6280  LHCUPBND= 303.1
LHCLOBND= 273.1  SURFTENS= 0.1590E-01  SFTNTMP= 293.1  INTFTENS=  INTFTTMP=
SOLUBPNT= 0.1800E-01  SOLUBTMP= 282.9  A =  B =  AVP = 9.708
BVP = 1486.  CVP = -0.1500  VFUPRND= 323.1  VPLWRND= 273.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR= 0.1700E+06  HTCOASTN= -0.6900E+07  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 2.000  HTDECOMP=  UPFLMLIM=  BURNRATE= 0.4509E-04
TOXINHAL= 0.1000E-02  INHALCNC= 0.4000E-01  INHALTME= 300.0  LOTOXLIM=  UPTOXLIM=
LAFETOX =  ABFLNTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

NKS	CHEMNAME = NICKEL SULFATE	PATHCODE = SS	
MOLEWT =	154.8	NBP =	CRITTEMP=
DENSITY =	3680.	DENSTEMP=	293.2
CRHO =		LDUPRBND=	LDLRBND=
AVIS =		BVIS =	LVUPRBNO=
LTHCNTMP=		ACON =	BCON =
LQHTCPPT=		LQHTCPTM=	AHC =
LHCLOBNO=		SURFTENS=	SFTINTEMP=
SOLUBPNT=		SOLUBTMP=	A = -119.9
BVP =		CVP =	VUPRBNO=
BVCP =		CVCP =	DVCP =
HTFUSION=		LHTVAPOR=	HTCOMSTN=
HTREACTN=		HTPOLYMR=	LOFL'ILIM=
TOXINHAL=	0.1450	INHALCNC=	INHALTIME=
LAETOX =		ABFLMTMP=	MOLRATIO=
MOLFRAC =			
			CRITPRES=
			BRHO =
			LQVISTMP=
			LQTHRCNO=
			LTCLOBND=
			LHCUPBNO=
			INTFTTMP=
			AVP =
			AVCP =
			VHCLOBNO=
			HTSOLUTN=
			BURNRATE=
			UPTOXLIM=
			FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NMT   CHEMNAME = NITROMETHANE      PATHCODE = A P O R S
MOLEWT = 61.04      NBP = 374.4      NFP = 244.0      CPITTEMP= 588.0      CRITPRES= 0.6311E+07
DENSITY = 1139.      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1520.      BRHO = -1.300
CRHO = 0.0000E+00      LOUPRBD= 353.2      LDWRBD= 273.2      LOVISPNT=      LOVISTMP=
AVIS =      BVIS =      LVUPRBD=      LVLWRBD=      LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBNO=
LOHTCPPT= 1771.      LOHTCPTM= 293.2      AHC = 1280.      EHC = 1.675      LHCUPBND= 333.2
LHCLOBNO= 248.2      SURFTENS= 0.3700E-01      SFTNTEMP= 293.2      INTFTENS=      INTFTTMP=
SOLUBPNT= 10.00      SOLUBTMP= 293.2      A =      B =      AVP = 9.169
BVP = 1291.      CVP = -64.16      VUPRBD= 373.2      VPLWRBD= 288.2      AVCP = 0.1239E+05
BVCP = 168.3      CVCP = -0.5862E-01      OVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSIGN=      LHTVAPOR= 0.5610E+06      HTCOMBTN= -0.1054E+08      HTSOLUTN= -0.2000E+05(E
HTREACTN=      HTPOLYMR=      LOFLMLIM= 7.300      UPFLMLIM=      BURNRATE= 0.1833E-04
TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

UNITS

CHEMNAME = 1-NONENE

1
2

CRITTEMP=	601.0	CRITPRES=	0.2482E+07
CRHO =	960.8	CRHO =	-0.7900
QVISPAT=	0.6200E-03	LQVISTMP=	293.2
VLWRBND=	273.2	LQTHRCNO=	
LTCPBND=		LTCLOBND=	
LHC =	4.187	LHCUPBND=	303.2
NTFTENS=		INTFTTMP=	
B =		AVP =	9.079
PLWRBND=	293.2	AVCP =	0.1679E+05
HCUPBND=	600.0	VHCLOBND=	250.0
ITOECCMP=		HTSOLUTN=	
IPFLMLIN=		BURNRATE=	0.1000E-03
OTOXLIM=		UPTOXLIM=	
IRFUEL =		FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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NNN  CHEMNAME = NONANOL

      PATHCODE = A  T  U
MOLEWT = 144.3      NBP = 486.0      NFP = 268.0      CRITTEMP= 677.0      CRITPRES= 0.2400E+07
DENSITY = 827.0      DENSTEMP= 293.2      SMPSTATE=L      ARHO = 1061.      BRHO = -0.8000
CRHO = 0.0000E+00      LDUPRND= 323.2      LDLWFSND= 273.2      LOVISPT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS = -18.80 (E) BVIS = 4000. (E) LVUPRND= 303.0 (E) LVLWRBD= 283.0 (E) LOTHRCND= 0.1512
LTHCNTMP= 293.2      ACON = 0.1992      BCON = -0.1628E-03      LTCUPBND= 363.2      LTCLOBND= 288.2
LOHTCPPT= 2000. (E) LOHTCPTM= 293.0 (E) AHC = 2000. (E) EHC = 0.0000E+00(E) LHCUPBND= 303.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= 0.2500E-01(E) SFTINTMP= 293.0 (E) INTFIE'S= 0.3000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=          A =          B =          AVP = 8.959
BVP = 1730.      CVP = -135.2      VFUPRND= 523.2      VPLWRBD= 373.2      AVCP = 0.2788E+05
BVCP = 727.2      CVCP = -0.2261      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3035E+06      HTCONSTN= -0.4090E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=          LOFLMLIM= 0.8000      UPFLMLIM= 6.100      BURNRATE=
TOXINHAL=      INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=          MOLRATIO=          AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NNP CHEMNAME = NONYLPHENOL PATHCODE = A T U

MOLECW = 220.4	NBP = 577.0	NFP =	CRITEMP = 743.0	CRITPRES =
OENSITY = 948.0	OENSTEMP = 298.2	SHPSIATE=L	ARHO = 1160.	BRHO = -0.7100
CRHO = 0.0000E+00	LDUPRND = 353.2	LDLWRND = 298.2	LQVISPNT = 1.690	LQVISTMP = 298.2
AVIS = -18.30	BVIS = 5610.	LVUPRND = 353.2	LVLWRND = 298.2	LQTHRCND = 0.1500 (E)
LTHCNTMP = 298.0 (E)	ACON = 0.1500 (E)	BCON = 0.0000E+00(E)	LTCUPRND = 303.0 (E)	LTCLOBND = 283.0 (E)
LQHTCPPT = 2500. (E)	LQHTCPTM = 298.0 (E)	AHC = 2500. (E)	BHC = 0.0000E+00(E)	LHCUPRND = 303.0 (E)
LHCLOBND = 293.0 (E)	SURFTENS = 0.3000E-01(E)	SFTNTMP = 293.0 (E)	INTFTENS = 0.3000E-01(E)	INTFTTMP = 293.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 9.351
BVP = 1997.	CVP = -117.2	VFUPRND = 626.2	VPLWRND = 438.2	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPRND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.4070E+08(E)	HTOECONP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.000 (E)	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
*****
NNT      CHEMNAME = NICKEL NITRATE      PATHCODE = SS
MOLECW = 290.8      NBP =
DENSITY = 2050.      OENSTMP = 293.1      SHPSTATE = S
CRHO =
AVIS =
LTHCNTMP =
LQHTCPPT =
LHCLOBNO =
SOLUBPNT = 04.10      SOLUBTMP = 293.1      A = -125.7      B = 0.7500
BVP =
BVCP =
HTFUSION =
HTREACTN =
TOXINHAL = 0.7700E-01      INHALCNC =
LATETOX =
MOLFRAC =
CRITPRES =
BRHO =
LQVISTMP =
LOTHRCND =
LTCLOBND =
LHCUPBNO =
INTFTTMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN = 0.1100E+06
BURNRATE =
UPTOXLIM = 0.5000E-02
FLMETEMP =
CRITTEMP =
ARHO =
LOVISPNT =
LVLRBND =
LTCUPBND =
BHC =
INTFTENS =
VPLWRBND =
VHCUPBI:D =
HTDECONP =
UPFLMLIM =
LOTOXLIM = 0.5000E-03
AIRFUEL =
MOLRATIO =
```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

NOX  CHEMNAME = NITROGEN TETROXIDE          PATHCODE = A  I  J  O
MOLEWT = 69.08 (E) NBP = 294.0 NFP = 262.0 CRITTEMP= 431.4 CRITPRES= 0.1010E+08
DENSITY = 1450. DENSTEMP= 293.2 SHPSTATE=L ARHO = 2183. BRHO = -2.500
CRHO = 0.0000E+00 LDUPRBND= 313.2 LDLRBND= 273.2 LQVISPNT= 0.4130E-03 LQVISTMP= 294.2
AVIS = BVIS = LVUPRBND= LVLWRBND= LQTHRCND=
LTHCNTMP= ACON = BCCN = LTCUPBND= LTCLOBND=
LQHTCPT= 3000. (E) LOHTCPTM= 273.0 (E) AHC = 3000. (E) EHC = 0.0000E+00(E) LHCUPBND= 278.0 (E)
LHCLOBND= 268.0 (E) SURFTENS= SFINTEMP= INTFTES= INTFTTMP=
SOLUBPNT= SOLUBTMP= A = B = AVP = 11.04
BVP = 1799. CVP = 3.640 VFUPRBND= 373.2 VPLWRBND= 234.2 AVCP = 0.4000E+05(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 400.0 (E) VHCLOBND= 300.0 (E)
HTFUSIGN= LHTVAFOR= 0.2700E+06(E) HTCOISTN= HTDECOMP= HTSOLUTN= -0.7000E+05(E)
HTREACTN= HTPOLYMR= LOFLVLIM= UPFLMLIM= BURNRATE=
TOXINHAL= 5.000 INHALCNC= 25.00 INHALTME= 300.0 LOTOXLM= UPTOXLM=
LAFETOX = ABFLWTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NPH CHEMNAME = 4-NITROPHENOL PATHCODE = II SS

MOLEWT = 139.1	NBP =	NFP = 386.0	CRITTEMP=	CRITPRES=
DENSITY = 1480.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBNO=	LDLWRQND=	LOVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 1.600	SOLUBTMP= 298.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBNO=
HTFUSIGN=	LHTVAPOR=	HTCOMSTN= -0.2060E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS


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NPP  CHEMNAME = 2-NITROPROPANE          PATHCODE = A  P  O  T  U  X  Y
MOLEWT = 89.09      NBP = 393.5      NFP = 182.0      CRITTEMP=
DENSITY = 990.0      OENSTEMP= 293.1      SHPSTATE=L      ARHO = 1312.      BRHO = -1.100
CRHO = 0.0000E+00      LOUPRND= 303.1      LDLWRBND= 288.1      LOVISPT= 0.7700E-03      LQVISTMP= 293.1
AVIS = -10.94      8VIS = 1104.      LVUPPSND= 308.1      LVLWRBND= 283.1      LQTHRCNC=
LTHCNTMP=          ACON =          BCON =          LTCLOBND=
LQHTCPT=          LOHTCPTM=          AHC =          LHCUPBND=
LHCLGBND=          SURFTENS= 0.3000E-01      SFTNTEMP= 293.1      INTFTTMP=
SOLUBPNT= 1.700      SOLU3TMP= 293.1      A = -1.818      B = 0.1200E-01      AVP = 9.936
BVP = 1940.      CVP = -0.1500      VFUPRND= 393.1      VPLWRBND= 288.1      AVCP = -5091. (E
BVCP = 433.0 (E) CVCP = -0.2676 (E) DVCP = 0.6280E-04(E) VHCUPSND= 550.0      VHCLOBND= 250.0
HTFUSICN=          LHTVAPOR= 0.4100E+06      HTCO::STN= -0.2240E+08      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIN= 2.600      UPFLMLIN=
TOXINHAL= 25.00      INHALCNC=          INHALTME=          LOTOXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =
  
```

PROPERTY FILE FIELDS ARE DISPLAYED IN SI SYSTEM OF UNITS

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NSS  CHEMNAME = NAPHTHA STODDARD SOLVENT      PATHCODE = A  T  U
MOLEWT =          NBP = 433.0 (E) NFP =          CRITTEMP=          CRITPRES=
DENSITY = 780.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 780.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBND= 313.0 (E) LOLWRBND= 283.0 (E) LOVISPT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS = -18.80 (E) 8VIS = 4000. (E) LVUPRBND= 313.0 (E) LVLWRBND= 283.0 (E) LOTHRCNO= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBNO= 313.0 (E) LTCLOBNO= 283.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBNO= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.0 (E) INTFTENS= 0.4500E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.641 (E)
8VP = 2086. (E) CVP = 0.0000E+00(E) VFUPRBND= 450.0 (E) VPLWRBND= 300.0 (E) AVCP = 0.1990E+05(E)
BVCP = 1073. (E) CVCP = -0.6010 (E) OVCP = 0.0000E+00(E) VHCUPBND= 300.0 (E) VHCLOBND= 300.0 (E)
HTFUSION=          LHTVAPOR= 0.2350E+06(E) HTCOMBSTN= -0.4240E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 0.8000      LPFLMLIM= 5.000      BURNRATE= 0.6667E-04
TOXINHAL= 200.0      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

NSV  CHEMNAME = NAPHTHA SOLVENT      PATHCODE = A  T  U
MOLECWT =      N8P      = 403.0 (E) NFP      =      CRITTEMP=
DENSITY = 850.0 (E) OENSTEMP= 293.2 SHPS-STATE=L      ARHO =      CRITPRES=
CRHO = 0.0000E+00(E) LDUPRND= 313.0 (E) LOLWRBND= 283.0 (E) LQVISPT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS = -18.80 (E) 8VIS = 4000. (E) LVUPRND= 313.0 (E) LVLWRBND= 283.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 313.0 (E) LTCLOBND= 283.0 (E)
LOHTCPPT= 2000. (E) LOHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.4500E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.641 (E)
BVP = 2086. (E) CVP = 0.0000E+00(E) VFUPRND= 450.0 (E) VPLWRBND= 300.0 (E) AVCP = 0.1990E+05(E)
BVCP = 1073. (E) CVCP = 0.6010 (E) DVCP = 0.0000E+00(E) VHCUPBND= 500.0 (E) VHCLOBND= 300.0 (E)
HTFUSION=      LHTVAPOR= 0.2350E+06(E) HTCOMSTN= -0.4240E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.8000      UPFLMLIM=      BURNRATE= 0.6667E-04
TOXINHAL= 200.0      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

NTA CHEMNAME = 2-NITROANILINE

PATHCODE = II

MOLECW = 138.1	NBP =	557.D	NFP = 344.0	CRITTEMP =	CRITPRES =
DENSITY = 1440.	DENSTEMP =	293.1	SHPS:ATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND =		LDLWRSND =	LQVISPT =	LOVISTMP =
AVIS =	BVIS =		LVUPRSND =	LVLWRB:D =	LOTHRCND =
LTHCNTMP =	ACON =		BCON =	LTCUPB:D =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =		AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =		SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 0.1200	SOLUBTMP =	298.1	A = -1.310 (E) B =	0.480DE-02(E) AVP =	
BVP =	CVP =		VFUPRSND =	VPLWRB:D =	AVCP =
BVCP =	CVCP =		DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =		HTCOMSTN = -0.2320E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =		LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =		INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-03
LAETOX =	ABFLMTMP =		MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =					0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
NTC  CHEMNAME = NITROSYL CHLORIOE      PATHCODE = A  C  O
MOLEWT = 65.46      NBP = 267.4      CRITTEMP = 441.0      CRITPRES = 0.9100E+07
DENSITY = 1360.      OENSTEMP = 267.5      ARHO = 2006.      BRHO = -2.400
CRHO = 0.0000E+00      LOUPRBND = 273.2      LOLWRBND = 243.2      LQVISTMP =
AVIS =      BVIS =      LVUPRBND =      LVLWRBND =      LQTHRCND =
LTHCNTMP =      ACON =      BCON =      LTCUPBND =      LTCLOBND =
LOHTCPPT = 700.0 (E) LOHTCPTM = 263.0 (E) AHC = 700.0 (E) BHC = 0.0000E+00(E) LHCUPBND = 263.0 (E
LHCLOBND = 253.0 (E) SURFTENS =      SFTNTEMP =      INTFTENS =      INTFTTMP =
SOLUBPNT =      SOLUBTMP =      A =      B =      AVP = 9.972
BVP = 1328.      CVP = 0.4004E-01      VFUPRBND = 293.2      VPLWRBND = 233.2      AVCP = 0.3345E+05
BVCP = 46.47      CVCP = -0.2931E-01      DVCP = 0.0000E+00      VHCUPBND = 600.0      VHCLOBND = 250.0
HTFUSION = 0.9211E+05      LHTVAPOR = 0.3810E+06      HTCOMBNTN =      HTSOLUTN =
HTREACTN = -0.7997E+06      HTPOLYMR =      LOFLMLIM =      UPFLMLIM =      BURNRATE =
TOXINHAL = 1.000      INHALCNC =      INHALTME =      LOTOXLIM =      UPTOXLIM =
LATETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NTE CHEMNAME = NITROETHANE

PATHCODE = A P Q T U X Y

MOLECW = 75.07	NBP = 387.0	NFP = 183.0	CRITTEMP =	CRITPRES =	
DENSITY = 1050.	OENSTEMP = 293.1	SHPSSTATE = L	ARHO = 1343.	BRHO =	-1.000
CRHO = 0.0000E+00	LOUPRND = 303.1	LOLWRND = 273.1	LOVISPT = 0.6680E-03	LOVISTMP =	298.1
AVIS = -10.72	EVIS = 1016.	LVUPRND = 383.1	LVLWRND = 283.1	LOTHRCND =	0.1663
LTHCNTMP = 311.1	ACON = 0.3227	BCON = -0.5001E-03	LTCUPND = 348.1	LTCLO8ND =	305.1
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUP8ND =	
LHCLO8NO =	SURFTENS = 0.3130E-01	SFTNTMP = 293.1	INTFTENS =	INTFTTMP =	
SOLU8PNT = 4.500	SOLUBTMP = 293.1	A =	B =	AVP =	10.31
8VP = 2054.	CVP = -0.1500	VUPRND = 387.1	VPLWRND = 283.1	AVCP =	8763. (E)
8VCP = 289.7 (E)	CVCP = -0.1641 (E)	OVCP = 0.3551E-04(E)	VHCUPND = 550.0	VHCLO8ND =	250.0
HTFUSION =	LHTVAPOR = 0.4900E+06	HTCOMSTN = -0.1790E+08	HTDECOP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM = 3.400	UPFLMLIM =	BURNRATE =	
TOXINHAL = 100.0	INHALCNC =	INHALTME =	LOTOXLIN = 0.5000E-03	UPTOXLIM =	0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
NTI    CHEMNAME = NAPHTHENIC ACIDS          PATHCODE = A   T   U
MOLEWT = 225.0    (E) NBP = 460.5    (E) NFP =          CRITTEMP=
DENSITY = 960.0    OENSTEMP= 293.1    SHPSTATE=L        ARHO =
CRHO =          LDUPRBND=          LDLWRBND=          LOVISPT=
AVIS =          BVIS =          LVUPRBND=          LVLWRBND=
LTHCNTMP=          ACON =          LTCUPBND=          LTCLOBND=
LQHTCPPI=          LQHTCPTM=          AHC =          LHCUPBNO=
LHCLOBNO=          SURFTENS=          SFTNIEMP=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRBND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBND=          VHCLOBND=
HTFUSIGN=          LHTVAPOR=          HTCONGTN=          HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.000    UPFLMLIN=          BURNRATE=
TOXINHAL= 1.000    (E) INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02    UPTOXLIM= 0.1500E-01
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PATHCODE = II

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

NTM  CHEMNAME = NAPHTHALENE, MOLTEN  PATHCODE = A  T  U  X
MOLEWT = 128.2  NBP = 491.0  NFP = 353.4  CRITTEMP= 748.4  CRITPRES= 0.4050E+07
DENSITY = 1145.  OENSTEMP= 293.2  SHPSSTATE=S  ARHO = 1110.  (E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E) LDUPRENO= 363.0  (E) LDUPRSND= 353.0  (E) LQVISPT= 0.8800E-03  LQVISTMP= 353.2
AVIS = -15.53  BVIS = 3000.  LVUPRSND= 433.2  LVLWRBND= 353.2  LQTHRCND= 0.1300  (E
LTHCNTMP= 353.0  (E) ACON = 0.1300  (E) BCON = 0.0000E+00(E) LTCUPBND= 363.0  (E) LTCLOBNO= 353.0  (E
LQHTCPPT= 1591.  LQHTCPTM= 353.2  AHC = 349.8  BHC = 3.517  LHCUPBND= 553.2
LHCLOBNO= 353.2  SURFTENS= 0.2000E-01(E) SFTNTEMP= 353.0  (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 353.0  (E
SOLUBPNT= 0.3000  SOLUBTMP= 293.2  A = 8  B = 8.971
BVP = 1607.  CVP = -85.96  VFUPRSNO= 523.2  VPLWRBND= 353.2  AVCP = -0.4509E+05
BVCP = 698.4  CVCP = -0.3433  OVCP = 0.0000E+00  VHCUPBND= 600.0  VHCLOBNO= 250.0
HTFUSION=  LHTVAPOR= 0.3379E+06  HTCOMBNTN= -0.3888E+08  HTOECCHP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 0.9000  UPFLMLIM= 5.900  BURNRATE= 0.7167E-04
TOXINHAL= 10.00  INHALCNC= 15.00  INHALTME= 300.0  LOTOXLIN=  UPTOXLIM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
NTO      CHEMNAME = NITROUS OXIDE
          PATHCODE = A C I J
          MOLEWT = 44.00      NBP = 183.7      CRITTEMP= 309.7      CRITPRES= 0.7280E+07
          DENSITY = 1266.      OENSTEMP= 184.1      ARHD = 1984.      BRHO = -3.900
          CRHO = 0.0000E+00      LOUPRNO= 193.1      LDLRBND= 183.1      LQVISMP=
          AVIS =              8VIS =              LVUPRND=              LVLWRBND=
          LTHCNTMP=              ACON =              BCON =              LTCUPBND=
          LQHTCPPT=              LQHTCPTM=              AHC =              EHC =
          LHCLOBND=              SURFTENS= 0.1010E-01      SFTNTMP= 248.1      INTFTMP=
          SOLUBPNT= 0.2500      SOLUBTMP= 273.1      A =              8 =              9.551
          BVP = 835.0      CVP = -0.1500      VFUPRND= 233.1      VPLWRBND= 184.1      AVCP = 0.3894E+05
          BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 400.0      VHCLOBND=
          HTFUSIGN=              LHTVAPOR= 0.3760E+06      HTCOMSTN=              HTSOLUTN=
          HTRACTN=              HTPOLYMR=              LOFLMLIM=              UPFLMLIM=
          TOXINHAL=              INHALCNC=              INHALTME=              LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
          LAETOX =              ABFLMTMP=              MOLRATIO=              AIRFUEL =
          MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
NTP      CHEMNAME = 2-NITROPHENOL      PATHCODE = II
MOLECWT = 139.1      NBP = 487.0      CRITPRES=
DENSITY = 1490.      DENSTEMP= 293.1      CRITTEMP=
CRHO =      LDUPREND=      SHPSTATE=S      ARHO =
AVIS =      BVIS =      LDUPREND=      LOVISPI,T=
LTHCNTMP=      ACON =      LVUPREND=      LVLWRBND=
LOHTCPTM=      LOHTCPTM=      BCON =      LTCUPBND=
LHCLOBND=      SURFTENS=      AHC =      BHC =
SOLUBPNT= 0.2100      SOLUBTMP= 293.1      SFTNTEMP=      INTFTENS=
BVP =      CVP =      A = -1.549      B = 0.6000E-02      AVP =
BVCP =      CVCP =      VFUPREND=      VPLWRBND=      AVCP =
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.2070E+08      VHCLOBND=
HTREACTN=      HTPOLYMR=      LOFLCLIM=      HTDECOMP=      VHCLOBND=
TOXINHAL=      INHALCNC=      INHALTME=      UPTOXLIM=      HTSOLUTN=
LATETOX =      ABFLMTMP=      MOLRATIO=      LOTOXLIM=      BURNRATE=
MOLFRAC =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=

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 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NTX		CHEMNAME = NITRIC OXIDE		PATHCODE = A C	
MOLECW	= 30.00	NBP	= 121.5	NFP	= 109.6
DENSITY	=	DENSTMP	=	SHPSATE	= G
CRHO	=	LDUPRNO	=	LDLWRBND	=
AVIS	=	BVIS	=	LVUPRND	=
LTHCNTMP	=	ACON	=	BCON	=
LQHTCPPT	=	LQHTCPTM	=	AHC	=
LHCLOBNO	=	SURFTENS	=	SFTNTMP	=
SOLUBPNT	=	SOLUBTMP	=	A	=
BVP	=	CVP	=	VFUPRND	=
BVCP	= 0.0000E+00	CVCP	= 0.0000E+00	OVCP	= 0.0000E+00
HTFUSION	=	LHTVAPOR	=	HTCOVSTN	=
HTREACTN	=	HTPOLYMR	=	LOFLMLIM	=
TOXINHAL	= 25.00	INHALCNC	= 200.0	(E) INHALTIME	= 300.0
LATETOX	=	ABFLMTMP	=	MOLRATIO	=
MOLFRAC	=				
				CRITPRES	= 0.6500E+07
				BRHO	=
				LOVISTMP	=
				LOTHRCNO	=
				LTCLOBNO	=
				LHCUPBND	=
				INTFTTMP	=
				AVP	=
				AVCP	= 0.2931E+05
				VHCLOBNO	= 250.0
				HTSOLUTN	= -0.5980E+06
				BURNRATE	=
				UPTOXLIM	=
				FLMETEMP	=
				CRITTEMP	= 180.0
				ARHO	=
				LOVISPT	=
				LVLWRBND	=
				LTCUPBND	=
				BHC	=
				INTFTENS	=
				B	=
				VPLWRBND	=
				VHCUPBND	= 400.0
				HTDECOMP	=
				UPFLMLIM	=
				LOTOXLIM	=
				AIRFUEL	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NVM  CHEMNAME = NAPHTHA VM + P (75( NAPHTHA)  PATHCODE = A  T  U  V  W
      MCLEWT =      NBP =      366.5  (E)  NFP =      CRITTEMP=
      DENSITY =      750.0  OENSTEMP=      293.2  SHPS:ATE=L  ARHO =      CRITPRES=
      CPHO =      0.0000E+00(E) LOUPRNO=      313.0  (E)  LOLWPSNO=      283.0  (E)  LOVISPT=      0.5800E-02(E) LOVISTMP=      293.0  (E)
      AVIS =      -18.80  (E)  BVIS =      4000.  (E)  LVUPRNO=      313.0  (E)  LVLWRSNO=      283.0  (E)  LQTHRCND=      0.1500  (E)
      LTHCNTMP=      293.0  (E)  ACON =      0.1500  (E)  8CON =      0.0000E+00(E) LTCUPBND=      313.0  (E)  LTCLOBNO=      283.0  (E)
      LQHTCPPT=      2000.  (E)  LQHTCPTM=      293.0  (E)  AHC =      2000.  (E)  BHC =      0.0000E+00(E) LHCUPBND=      313.0  (E)
      LHCLOBND=      283.0  (E)  SURFTENS=      0.2000E-01(E) SFTNTMP=      293.0  (E)  INTFTENS=      0.4500E-01(E) INTFTTMP=      293.0  (E)
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =      9.641  (E)
      BVP =      2086.  (E)  CVP =      0.0000E+00(E) VFUPRNO=      450.0  (E)  VPLWRSNO=      300.0  (E)  AVCP =      0.1990E+05(E)
      BVCP =      1073.  (E)  CVCP =      -0.6010  (E)  OVCP =      0.0000E+00(E) VHCUPBNO=      500.0  (E)  VHCLOBNO=      300.0  (E)
      HTFUSION=      LHTVAPOR=      0.2350E+06(E) HTCOMSTN=      -0.4240E+08(E) HTOECOMP=      HTSOLUTN=
      HTPREACTN=      HTPOLYMR=      LOFLMLIM=      0.9000  UPFLMLIM=      6.700  BURNRATE=      0.6667E-04
      TOXINHAL=      INHALCNC=      500.0  INHALTME=      1800.  LOTOXLIM=      0.5000E-02  UPTOXLIM=      0.1500E-01
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NXX  CHEMNAME = NITROGEN, LIQUEFIED      PATHCODE = A  C  D  F  G
MOLEWT = 28.00      NEP = 77.60      NFP = 58.00      CRITTEMP= 126.2      CRITPRES= 0.3400E+07
DENSITY = 807.0      DENSTEMP= 77.65      SHPSRATE=L      ARHO = 2005.      BRHO = -6.000
CRHO = 0.0000E+00      LDUPREND= 83.15      LDLWRBND= 73.15      LOVISPNT= 0.1580E-03      LOVISTMP= 77.15
AVIS = -11.19      BVIS = 188.0      LVUPREND= 113.1      LVLWRBND= 73.15      LOTHRCND= 0.1396
LTHCNTMP= 77.15      ACON = 0.2383      BCON = -0.1279E-02      LTCUPBND= 93.15      LTCLOBND= 73.15
LOHTCPPT= 1005.      LOHTCPTM= 73.15      AHC = 1005.      BHC = 0.0000E+00      LHCUPEND= 83.15
LHCLOBND= 73.15      SURFTENS= 0.8300E-01      SFTNTMP= 80.15      INTFTENS= 9.194      INTFTTMP=
SOLUBPNT=          A =          B =          VPLWRBND= 63.15      AVCP = 0.2931E+05
BVP = 325.0      CVP = -0.1500      VFUPREND= 93.15      VHCUPBND= 500.0      VHCLOBND= 250.0
BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      HTDECCNP=
HTFUSION=          LHTVAPOR= 0.2200E+06      HTCOVSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=
LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =          FLMETEMP=

```

OAC CHEMNAME = OLEIC ACID. SODIUM SALT

PATHCODE = SS

MOLECW	304.0	(E) NBP	=	NFP	=	506.5	(E) CRITTEMP	CRITPRES
DENSITY	1100.	(E) DENTEMP	=	293.1	SHSTATE=S		ARHD	BRHO
CRHO		LDUPRBD	=		LDLWRBD		LOVISPI.T	LOVISTMP
AVIS		BVIS	=		LVUPRBD		LVLWRBD	LO7HRCND
L7HCNTMP		ACON	=		BCDN		LTCUPBD	LTCLOBND
LQHTCPPT		LOHTCPTM	=		AHC		BHC	LHCUPBD
LHCLOBND		SURFTENS	=		SFTNTMP		INTFTENS	INTFTTMP
SOLUBPNT	10.00	SOLUBTMP	=	293.1	A		B	AVP
BVP		CVP	=		VFUPRBD		VPLWRBD	AVCP
BVCP		CVCP	=		DVCP		VHCUPBD	VHCLOBND
HTFUSION		LHTVAPDR	=		HTCOMSTN		HTDECONP	HTSOLUTN
HTREACTN		HTPDLYMR	=		LOFLMLIM		UPFLWLTC	BURNRATE
TOXINHAL		INHALCNC	=		INHALTME		LOTOXLIM	UPTOXLIM
LATETOX		ABFLMTMP	=		MOLRATID		AIR FUEL	FLMETEMP
MOLFRAC								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OAN  CHEMNAME = OCTANE  PATHCODE = A  T  U
MOLECW = 114.2  NBP = 398.9  NFP = 216.4  CRITTEMP = 568.6  CRITPRES = .0.2490E+07
DENSITY = 703.0  DENSTEMP = 293.1  SHPS:ATE=L  ARHO = 952.2  BRHO = -0.8500
CRHO = 0.0000E+00  LOUPRND = 353.1  LOLWRBND = 253.1  LOVISPT = 0.5450E-03  LQVISTMP = 293.1
AVIS = -11.15  BVIS = 1064.  LVUPRND = 373.1  LVLWRBND = 273.1  LQTHRCND = 0.1314
LTHCNTMP = 293.1  ACON = 0.2167  BCON = -0.2908E-03  LTCUPBND = 313.1  LTCLOBND = 253.1
LQHTCPPT = 2194.  LOHTCPTM = 293.1  AHC = 1212.  EHC = 3.349  LHCUPBND = 333.1
LHCLOBNO = 253.1  SURFTENS = 0.2170E-01  SFNTTEMP = 293.1  INTFTENS = 0.3500E-01(E)  INTFTTMP = 293.1
SOLUBPNT = 0.2000E-02  SOLUBTMP = 289.1  A =  =  = 10.09  AVP =  = 10.09
BVP = 2028.  CVP = -0.1500  VFUPRNO = 403.1  VPLWRBND = 293.1  AVCP =  = 0.5288E+05
BVCP = 454.3  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
HTFUSION =  HTVAPOR = 0.3030E+06  HTCO:BTN = -0.4443E+08  HTDECON =  HTSOLUTN =
HTREACTN =  HTPOLYMR =  LOFLMLIM = 1.000  UPFLMLIM = 6.500  BURNRATE = 0.1052E-03
TOXINHAL = 400.0  INHALCNC = 500.0  INHALTME = 1800.  LOTOXLIM =  UPTOXLIM =
LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OAP  CHEMNAME = OLEIC ACID, POTASSIUM SALT      PATHCODE = A  P
MOLEWT = 320.0      NBP =      NFP = 510.5      (E) CRITTEMP=
DENSITY = 1100.      (E) DENSTEMP= 293.1      SHPSTATE=L      ARHO =
CRHO =      LDUPRBN=      LQVISPNT=
AVIS =      BVIS =      LVUPRBN=      LVLWRBN=
LTHCNTMP=      ACON =      LTCUPBN=
LQHTCPPT=      LQHTCPTM=      EHC =
LHCLOBND=      SURFTENS=      INTFTENS=
SOLUBPNT= 25.00      SCLUBTMP= 293.1      B =
BVP =      CVP =      VFUPRBN=
BVCP =      CVCP =      DVCp =      VPLWRBN=
HTFUSION=      LHTVAPDR=      HTCOMBTN=      VHCLOBND=
HTREACTN=      HPOLYMR=      LDFLMLIM=      HTSOLUTN=
TOXINHAL=      INHALCNC=      INHALTME=      UPFLMLIM=
LARETOX =      ABFLMTMP=      LDTOXLIM=      BURNRATE=
MOLFRAC =      MDLRATIO=      AIRFUEL =      FLMETEMP=
CRITPRES=
BRHD =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OAS  CHEMNAME = OIL: ABSORPTION          PATHCODE = A  T  U
MOLEWT =          NBP =          533.0  (E)  NFP =          CRITTEMP =          CRITPRES =
DENSITY =          OENSTEMP =          SHPSRATE =          ARHO =          850.0  (E)  BRHO =          0.0000E+00(E)
CRHO =          0.0000E+00(E)  LDUPRBN =          303.0  (E)  LDWRBN =          283.0  (E)  LOVISPT =          0.7650E-02(E)  LOVISTMP =          311.2
AVIS =          BVIS =          LVUPRBN =          LVLWRBN =          LQTHRCND =          0.1310  (E)
LTHCNTMP =          293.0  (E)  ACON =          0.1470  (E)  BCON =          -0.5200E-04(E)  LTCUPB:D =          323.0  (E)  LTCLOBND =          273.0  (E)
LOHTCPPT =          1970.  (E)  LOHTCPTM =          293.0  (E)  AHC =          855.0  (E)  BMC =          3.780  (E)  LHCUPBNO =          313.0  (E)
LHCLOBNO =          283.0  (E)  SURFTENS =          0.2500E-01(E)  SFTNTMP =          293.0  (E)  INTFTENS =          0.5000E-01(E)  INTFTTMP =          293.0  (E)
SOLUBPNT =          SOLUBTMP =          A =          B =          AVP =          9.515  (E)
BVP =          2076.  (E)  CVP =          0.0000E+00(E)  VFUPRBN =          373.0  (E)  VPLWRB:D =          293.0  (E)  AVCP =          VHCLOBND =
BVCP =          CVCP =          OVCP =          VHCUPB:D =          HTSOLUTN =          BURNRATE =          0.6667E-04
HTFUSION =          LHTVAPOR =          HTCOWSTN =          -0.4200E+08(E)  HTDECOMP =          UPFLMLIM =          UPTOXLIM =          0.1500E-01
HTREACTN =          HTPOLYMR =          LOFLMLIM =          INHALTME =          AIRFUEL =          FLMETEMP =
TOXINHAL =          INHALCNC =          INHALTME =          LOTOXLIM =          0.5000E-02
LATETOX =          ABFLMTMP =          MOLRATIO =          MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OCA CHEMNAME = OIL: CASTOR

PATHCODE = A T U

MOLECWT =	NBP =	538.0	NFP =	261.0	CRITTEMP=	CRITPRES=		
DENSITY =	OENSTEMP=	298.2	SHPSSTATE=L		ARHO =	(E) BRHO =	-1.000 (E)	
CRHO =	0.0000E+00(E)	LOUPRBNO=	313.0	(E)	LDLWRSNO=	283.0	(E) LOVISIMP=	293.0 (E)
AVIS =	-24.95	(E) BVIS =	7450.	(E)	LVUPRSNO=	333.0	(E) LOTHRCND=	0.1310 (E)
LTHCNTMP=	293.0	(E) ACON =	0.1470	(E)	BCON =	-0.5200E-04(E)	LTCUPBND=	323.0 (E)
LQHTCPPT=	2000.	(E) LOHTCPTM=	293.0	(E)	AHC =	2000.	(E) BHC =	0.0000E+00(E)
LHCLOBND=	273.0	(E) SURFTENS=	0.2500E-01(E)	SFTNTMP=	293.0	(E)	INTFTENS=	0.5000E-01(E)
SOLUBPNT=		SOLUBTMP=		A =		B =	AVP =	9.510 (E)
BVP =	2076.	(E) CVP =	0.0000E+00(E)	VFUPRSNO=	323.0	(E)	VPLWRSNO=	273.0 (E)
BVCP =		CVCP =		OVCP =			VHCUPBNO=	
HTFUSION=		LHTVAPOR=		HTCON/STN=	-0.3710E+08(E)	HTOECOMP=	HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=			BURNRATE=	
TOXINHAL=		INHALCNC=		INHALTME=			LOTOXLIM=	0.5000E-02
LAETETOX =		ABFLMTMP=		MOLRATIO=			UPTOXLIM=	0.1500E-01
MOLFRAC =							FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OCC CHEMNAME = OILS EDIBLE: COCONUT

PATHCODE = A T U

MOLECWT =	NBP =	NFP =	297.0	(E) CRITTEMP =	CRITPRES =
DENSITY =	DENSTEMP =	SHPS:ATE=L		ARHO =	(E) BRHO = -0.8000 (E)
CRHO =	0.0000E+00(E)	LDLWRSND =	298.1	LOVISPT =	0.3500E-01 LQVISIMP = 303.1
AVIS =	-13.64	BVIS =	3120.	LVLWRB:D =	303.1 LQTHRCND = 0.1314 (E)
LTHCNTMP =	298.1	ACON =	0.1495 (E)	BCON =	-0.5B15E-04(E) LTCUPB:D = 323.1 LTCLOBND = 298.1
LQHTCPPT =	2010.	(E) LQHTCPTM =	298.1	AHC =	2010. (E) BHC = 0.0000E+00(E) LHCUPBND = 323.1
LHCLOBND =	298.1	SURFTENS =	0.2500E-01(E)	SFTN:EMP =	298.1 INTFTENS = 0.5000E-01(E) INTFTIMP = 298.1
SOLUBPNT =		SOLUBTMP =		A =	B =
BVP =		CVP =		VFUPRND =	VPLWRB:D =
BVCP =		CVCP =		DVCP =	VHCUPB:D =
HTFUSION =		LHTVAPOR =		HTCOM:STN =	-0.3600E+0B(E) HTDECOMP =
HTREACTN =		HTPOLYMR =		LOFLMLIM =	UPFLMLIM =
TOXINHAL =		INHALCNC =		INHALTME =	LOTOXLIM =
LATETOX =		ABFLMIMP =		MOLRATIO =	AIRFUEL =
MOLFRAC =					FLMETEMP =
					BURNRATE = 0.6680E-04

OCF	CHEMNAME = OIL: CLARIFIED	PATHCODE = A T U					
	MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=		
	DENSITY =	OENSTEMP=	SHPSTATE=	ΔRHO =	(E) BRHO =	= 0.0000E+00(E)	
	CRHO =	0.0000E+00(E)	LDPURBND=	303.0 (E)	LWLWRBNO=	283.0 (E)	
	LOVISVISC=	0.0000E-02(E)	LOVISVISC=	0.5800E-02(E)	LOVISVISC=	0.5800E-02(E)	
	AVIS =	-18.80 (E)	BVIS =	4000. (E)	LVLWRBNO=	283.0 (E)	
	LTHCNTMP=	293.0 (E)	ACON =	0.1470 (E)	LTCUPBND=	323.0 (E)	
	LOHTCPTP=	1970. (E)	LOHTCPTM=	293.0 (E)	AHC =	3.780 (E)	
	LHCLGBND=	283.0 (E)	SURETENS=	0.2500E-01(E)	SFTNTEMP=	293.0 (E)	
	SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =	9.515 (E)	
	BVP =	2076. (E)	CVP =	0.0000E+00(E)	VFLWRBNO=	293.0 (E)	
	BVCP =	CVCP =	DVCP =	VLCUPBNO=	VHCLGBNO=		
	HTFUSION=	LHTVAPOR=	HTCOMBUSTN=	-0.4200E+08(E)	HTDECOMP=	HTSOLUTION=	
	HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=	0.6667E-04	
	TOXINHAL=	INHALCNC=	INHALTIME=	LOTOXLIM=	UPTOXLIM=		
	LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=		
	MOLFRAC =						

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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OCS  CHEMNAME = OIL: COTTONSEED          PATHCODE = A  T  U
MOLEWT =          NBP =          CRITPRES=
DENSITY = 920.0      OENSTEMP= 293.2      CRITTEMP=
CRHO = 0.0000E+00(E) LOUPRBND= 313.0      (E) LOVISPT= 712.0      (E) BRHO = -1.000      (E)
AVIS = -24.95      (E) BVIS = 7450.      (E) LVUPRBND= 333.0      (E) LVLWRBND= 283.0      (E) LOVISTMP= 293.0      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1470      (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0      (E) LTHRCNO= 0.1310      (E)
LOHTCPPT= 2000.      (E) LOHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0      (E)
LHCLOBNO= 273.0      (E) SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0      (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.510      (E)
BVP = 2076.      (E) CVP = 0.0000E+00(E) VFUPRBND= 323.0      (E) VPLWRBND= 273.0      (E) AVCP =
BVCP =          CVCP =          DVCV =          VHCUPBND=          VHCLOBNO=
HTFUSIGN=          LHTVAPOR=          HTCONBTN= -0.3710E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIN=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTIME=          LOTOXLIN=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ODS CHEMNAME = OIL: DIESEL PATHCODE = A T U

MOLECW =	NBP =	561.0	(E) NFP =	239.0	(E) CRITTEMP =	CRITPRES =
DENSITY =	OENSTEMP =	293.2	SHPSSTATE=L	ARHO =	850.0	(E) BRHO = 0.0000E+00(E)
CRHO =	0.0000E+00(E)	LOUPRENO =	303.0	(E) LDLWRBND =	283.0	(E) LQVISPNT = 0.1195E-01(E) LQVISTMP = 311.2
AVIS =	BVIS =	LVUPRSND =	LVUPRSND =	LVLWRBND =	LQTHRCND =	0.1310 (E)
LTHCNTMP =	293.0	(E) ACON =	0.1470	(E) BCON =	-0.5200E-04(E)	LTCLOBND = 273.0 (E)
LQHTCPPT =	1970.	(E) LQHTCPTM =	293.0	(E) AHC =	855.0	(E) BHC = 3.780 (E) LHCUPBND = 313.0 (E)
LHCLOBND =	283.0	(E) SURFTENS =	0.2500E-01(E)	SFTNTIMP =	293.0	(E) INTFTENS = 0.5000E-01(E) INTFTIMP = 293.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	9.515	(E)
BVP =	2076.	(E) CVP =	0.0000E+00(E)	VFUPRSND =	373.0	(E) VPLWRBND = 293.0 (E) AVCP =
BVCP =	CVCP =	LHTVAPOR =	HTCOMSTN =	-0.4200E+08(E)	HTDECOMP =	VHCLOBND =
HTFUSION =	HTPOLYMR =	INHALCNC =	ABFLMTMP =	LOFLMLIM =	1.300	UPFLMLIN = 6.000
HTREACTN =	TOXINHAL =	LATETOX =	MOLFRAC =	LOTOXLIM =	0.5000E-02	UPTOXLIM = 0.1500E-01
				AIRFUEL =	FLMETEMP =	BURNRATE = 0.6667E-04

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OET  CHEMNAME = OCTYL EPOXY TALLATE      PATHCODE = A  T  U
      MOLECW = 420.0 (E) NBP =              NFP =              CRITTEMP=
      DENSITY = 924.0 DENSTEMP= 298.1        SHPSTATE=L        ARHO = 1222. (E) BRHO = -1.000 (E
      CRHO = 0.0000E+00(E) LOUPREND= 303.1    LOLWRSNO= 283.1    LQVISPNT= 0.3500E-01    LQVISTMP= 298.1
      AVIS =              BVIS =              LVUPREND=          LVLWRBND=          LOTHRCNO=
      LTHCNTMP=          ACON =              BCON =              LTCUPBND=          LTCLOBNO=
      LOHTCPPT=          LOHTCPTM=          AHC =              BHC =              LHCUPBND=
      LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=
      SOLUBPNT=          SOLUBTMP=          A =              B =              AVP =
      BVP =              CVP =              VFUPREND=          VPLWRBND=          AVCP =
      BVCP =              CVCP =              OVCP =              VHCUPBND=          VHCLOBND=
      HTFUSION=          LHTVAPOR=          HTCOHSIN=          HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMEIEMP=
      MOLFRAC =

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HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/11/53 PAGE198 A

PROPERTY FILE FIELDS VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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OFR  CHEMNAME = FUEL OIL: 4          PATHCODE = A  T  U
MOLEWT =          NBP      = 374.0 (E) NFP      = 264.0 (E) CRITTEMP=
DENSITY = 900.0 (E) DENSTEMP= 293.2 SHPSRATE=L      ARHO      = 900.0 (E) BRHO      = 0.0000E+00(E
CRHO      = 0.0000E+00(E) LOUPRNO= 303.0 (E) LOLPRND= 283.0 (E) LOVISPNT= 0.1450E-01(E) LOVISTMP= 311.2
AVIS      =          BVIS      =          LVUPRND=          LVLWRND=          LOTHRCNO= 0.1310 (E
LTHCNTMP= 293.0 (E) ACON      = 0.1470 (E) BCON      = -0.5200E-04(E) LTCUPRND= 323.0 (E) LTCLOBND= 273.0 (E
LOHTCPPT= 1970. (E) LOHTCPTM= 293.0 (E) AHC      = 855.0 (E) BHC      = 3.780 (E) LHCUPBNO= 313.0 (E
LHCLOBNO= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E
SOLUBPNT=          SOLUSTMP=          A      =          B      =          AVP      = 9.515 (E
BVP      = 2076. (E) CVP      = 0.0000E+00(E) VFUPRNO= 373.0 (E) VPLWRND= 293.0 (E) AVCP      =
BVCP      =          CVCP      =          OVCP      =          VHCUPBND=          VHCLOBNO=
HTFUSION=          LHTVAPOR=          HTCOM*STN= -0.4200E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.000          UPFLMLIM= 5.000          BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02          UPTOXLIM= 0.1500E-01
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLNETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OFS CHEMNAME = OIL: FISH PATHCODE = A T U
 MOLEWT = NBP = DENSTEMP = 293.2 SHPSTATE=L CRITTEMP = CRITPRES =
 DENSITY = 930.0 DENSTEMP = 293.2 SHPSTATE=L CRITTEMP = ARHO = 712.0 (E) BRHO = -1.000 (E)
 CRHO = 0.0000E+00(E) LDUPRND = 313.0 (E) LDLWRBND = 283.0 (E) LQVISPAT = 1.600 (E) LOVISTMP = 293.0 (E)
 AVIS = -24.95 (E) BVIS = 7450. (E) LVUPRND = 333.0 (E) LVLWRB:D = 283.0 (E) LQTHRCND = 0.1310 (E)
 LTHCNTMP = 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND = 323.0 (E) LTCLOBND = 273.0 (E)
 LQHTCPT = 2000. (E) LQHTCPTM = 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND = 313.0 (E)
 LHCLOBND = 273.0 (E) SURFTENS = 0.3500E-01(E) SFTNTMP = 293.0 (E) INTFTENS = 0.5000E-01(E) INTFTMP = 293.0 (E)
 SOLUBPNT = SOLUBTMP = A = B = AVP = 9.510 (E)
 BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRND = 323.0 (E) VPLWRB:D = 273.0 (E) AVCP =
 BVCP = CVCP = DVCP = VHCUPBND = VHCLOBND =
 HTFUSION = LHTVAPOR = HTCOMSTN = -0.3710E+08(E) HTDECOMP = HTSOLUTN =
 HTREACTN = LOPFLMLIM = LOFLMLIM = UPFLMLIM = BURNRATE =
 TOXINHAL = INHALCNC = INHALTME = LOTOXLIM = UPTOXLIM =
 LAETOX = ABFLMTMP = MOLRATIO = AIRFUEL = FLMETEMP =
 MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OFV  CHEMNAME = FUEL OIL: 5          PATHCODE = A   T   U
MOLEWT =          NBP   = 491.0   (E) NFP   = 255.0   CRITTEMP=
DENSITY = 900.0   (E) DENSTEMP= 293.2   SHPSTATE=L   ARHO   = 900.0   (E) BRHO   = 0.0000E+00(E
CRHO   = 0.0000E+00(E) LOUPRBNO= 303.0   (E) LOLWRBNO= 283.0   (E) LQVISPT= 0.4350E-01(E) LQVISTMP= 311.2
AVIS   =          BVIS   =          LVUPRBNO=          LVLWRBNO=          LQTHRCNO= 0.1310   (E
LTHCNTMP= 293.0   (E) ACON   = 0.1470   (E) BCON   = -0.5200E-04(E) LTCUPBNO= 323.0   (E) LTCLOBNO= 273.0   (E
LOHTCPPT= 1970.   (E) LOHTCPTM= 293.0   (E) AHC    = 855.0   (E) BHC    = 3.780   (E) LHCUPBNO= 313.0   (E
LHCLOBNO= 283.0   (E) SURFTENS= 0.2500E-01(E) SFTINTEMP= 293.0   (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0   (E
SOLUBPNT=          SOLUBTMP=          A    =          B    =          AVP    = 9.515   (E
BVP    = 2076.   (E) CVP    = 0.0000E+00(E) VFUPRBNO= 373.0   (E) VPLWRBNO= 293.0   (E) AVCP    =
BVCP   =          CVCP   =          OVCP   =          VHCUPBNO=          VHCLOBNO=
HTFUSION=          LHTIVAPOR=          HTOCO:STN= -0.4200E+08(E) HTOECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLIM= 1.000          UPFLWLIM= 5.000          BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02          UPTOXLIM= 0.1500E-01
LAETOX  =          ABFLMTMP=          MOLRATIO=          AIRFUEL  =          FLMETEMP=
MOLFRAC =

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OIL		CHEMNAME = OIL: CRUOE		PATHCODE = A T U				
MOLECW	=	NBP	=	305.0	(E) NFP	=	CRITTEMP=	CRITPRES=
DENSITY	=	700.0	(E) OENSTEMP=	288.2	SHPSSTATE=L	ARHO	=	850.0 (E) BRHO =
CRHO	=	0.0000E+00(E)	LDUPREND=	303.0	(E) LOLWRBNO=	283.0	(E) LQVISPT=	0.5800E-02(E) LOVISTMP=
AVIS	=	-18.80	(E) BVIS	=	4000.	(E) LVUPRBN0=	303.0	(E) LVLWRBND=
LTHCNTMP=	293.0	(E) ACON	=	0.1470	(E) BCON	=	-0.5200E-04(E) LTCUPBND=	323.0 (E) LTCLOBND=
LQHTCPPT=	1970.	(E) LOHTCPTM=	293.0	(E) AHC	=	855.0	(E) BHC	=
LHCL08ND=	283.0	(E) SURTENS=	0.2500E-01(E) SFTNTMP=	293.0	(E) INTFTENS=	0.5000E-01(E) INTFTTMP=	293.0	(E
SOLU8PNT=		SOLU8TMP=	A	=	B	=	AVP	=
BVP	=	2076.	(E) CVP	=	0.0000E+00(E) VFUPRBN0=	373.0	(E) VPLWRBND=	293.0 (E) AVCP =
BVCP	=		CVCP	=	DVCP	=	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=	0.3182E+06(E) HTCOWSTN=	-0.4200E+08(E) HTDECOMP=	HTSOLUTN=		BURNRATE=	0.6667E-04
HTREACTN=		HTPOLYMR=	LOFLMLIM=		UPFLMLIM=		UPTOX LIM=	
TOXINHAL=		INHALCNC=	INHALTME=		LOTOX LIM=		FLMETEMP=	
LARETOX	=	ABFLMTMP=	MOLRATIO=		AIRFUEL	=		
MOLFRAC	=							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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OLA  CHEMNAME = OLEIC ACID
      MOLEWT = 277.0 (E) NBP = 495.0
      DENSITY = 890.0 DENSTEMP = 298.1 SHPSSTATE=L NFP = 287.0 CRITTEMP =
      CRHO = 0.0000E+00 LDUPREND = 313.1 LDLPBND = 288.1 LVUPBND = 373.1 LVLRBND = 293.1 LQVISPNT = 0.3880E-01 LQVISTMP = 293.1
      AVIS = -14.03 BVIS = 3160. LVUPBND = 373.1 LVLRBND = 293.1 LQTHRCND =
      LTHCNTMP = ACON = LQTCPTM = 293.1 AHC = -3163. LTCLOBND =
      LQTCBND = 288.1 SURFTENS = 0.3280E-01 SFTNTMP = 293.1 INTFTENS = 0.1559E-01 INTFTTMP = 293.1
      SOLUBPNT = SOLUBTMP = A = B =
      BVP = CVP = VFUPBND = VPLWRBND =
      BVCP = CVCP = DVCP = VHCUPBND =
      HTFUSION = LMTVAPOR = 0.240DE+06 HTCONBNTN =
      HTREACTN = HTPOLYMR =
      TOXINHAL = INHALCNC =
      LATETOX = ABFLMTMP =
      MOLFRAC =
      PATHCODE = A T U
      CRITPRES =
      BRHO = -0.7000
      LQVISTMP =
      LQTHRCND =
      LTCLOBND =
      LHCUPBND = 303.1
      INTFTTMP =
      AVP =
      AVCP =
      VHCL08ND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM = 0.1500E-01(E)
      FLMETEMP =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

018 CHEMNAME = OIL: LUBRICATING

PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=	
DENSITY = 840.0 (E) OENSTEMP= 288.2	SHPSSTATE=L	ARHO = 850.0	(E) BRHO =	0.0000E+00(E)	
CRHO = 0.0000E+00(E) LOUPRBNO= 303.0	(E) LOLWRBNO= 283.0	(E) LOVISPT= 0.2750	(E) LOVISTMP=	311.2	
AVIS =	BVIS =	LVUPRBNO=	LOTHRCND=	0.1310 (E)	
LTHCNTMP= 293.0	(E) ACON = 0.1470	(E) BCON = -0.5200E-04(E)	LTCUPBNO= 323.0	(E) LTCLOBNO= 273.0 (E)	
LOHTCPPT= 1970. (E) LOHTCPTM= 293.0	(E) AHC = 855.0	(E) SHC = 3.780	(E) LHCUPBNO= 313.0 (E)		
LHCL08ND= 283.0	(E) SURFTENS= 0.2500E-01(E)	SFTNTEMP= 293.0	(E) INTFTENS= 0.5000E-01(E)	INTFTTMP= 293.0 (E)	
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.515 (E)	
BVP = 2076. (E) CVP = 0.0000E+00(E)	VFUPRBNO= 373.0	(E) VPLWRBND= 293.0	(E) AVCP =		
BVCP =	CVCP =	OVCN =	VHCUPBNO=		
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.4200E+08(E)	HTOECOMP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE= 0.6667E-04	
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-02	UPTOXLIM= 0.1500E-01	
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OLD   CHEMNAME = OILS EDIBIE. LARD
MOLCWT =      NBP      =      DENSTEMP= 303.1      NFP      = 301.0 (E) CRITTEMP=
DENSITY = 860.0      DENSTEMP= 303.1      SHPSTATE=S      ARHO      = 1099. (E) BRHO      = -0.8000 (E)
CRHO      = 0.000DE+00(E) LDUPREND= 323.1      LDLWRBND= 303.1      LQVISPNT=      LQVISTMP=
AVIS      =      BVIS      =      LVUPRBNBND=      LVLWRBND=      LQTHRCND= 0.1314 (E)
LTHCNTMP= 303.1      ACCN      = 0.1485 (E) BCON      = -0.5815E-04(E) LTCUPBND= 323.1      LTCLOBND= 303.1
LOHTCPPT= 2010. (E) LOHTCPTM= 303.1      AHC      = 2010. (E) BHC      = 0.0000E+00(E) LHCUPBND= 323.1
LHCLOBND= 303.1      SURFTENS= 0.250DE-D1(E) SFTNTMP= 303.1      INTFTENS= 0.500DE-01(E) INTFTMP= 303.1
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
BVP      =      CVP      =      VFUPRBNBND=      VPLWRBND=      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOI:STN= -0.3900E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6680E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OLM	CHEMNAME = OLEUM	PATHCODE = A O P	
MOLEWT =	NBP =	NFP =	CRITTEMP=
DENSITY = 1910.	(E) DENTEMP= 288.2	SHPSSTATE=L	ARHO =
CRHO =	LDUPRND=	LDLWRND=	LQVISPNT=
AVIS =	BVIS =	LVUPRND=	LVLWRND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=
LQHTCPPT= 1382.	(E) LQHTCPTM= 293.2	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUCNT=	SOLUBTMP=	A =	B =
BVP =	CVP =	VFUPRND=	VPLWRND=
BVCP =	CVCP =	DVCP =	VHCUPBND=
HTFUSION=	LHTVAPOR=	HTCONSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC= 5.000	INHALTME= 300.0	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MO FRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OLS  CHEMNAME = OILS MISCELLANEOUS: LINSEED      PATHCODE = A  T  U
MOLEWT =      NBP      =      OENSTMP= 293.1      NFP      = 254.0      CRITTEMP=
DENSITY = 930.0      OENSTMP= 293.1      SHPSTATE=L      ARHO      = 1169.      (E) BRHO      = -0.8000      (E)
CRHO      = 0.0000E+00(E) LDUPRBN= 303.1      DLWRBN= 273.1      LOVISPNT= 0.5500E-01      LOVISTMP= 289.1
AVIS      = -13.69      (E) 8VIS      = 3120.      (E) LVUPRBN= 298.1      LVLWRB:D= 288.1      LOTHRCND= 0.1314      (E)
LTHCNTMP= 293.1      ACON      = 0.1485      (E) 8CON      = -0.5815E-04(E) LTCUPBN:D= 323.1      LTCLOBND= 273.1
LOHTCPTM= 1842.      LOHTCPTM= 293.1      AHC      = 1842.      (E) BHC      = 0.0000E+00(E) LHCUP5ND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.1      INTFTENS= 0.5000E-01(E) INTFTTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
8VP      =      CVP      =      VFUPRBN=      VPLWRB:D=      AVCP      =
8VCP      =      CVCP      =      OVCP      =      VHCUPB:D=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCON:STN= -0.3900E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6680E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LARETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OMN  CHEMNAME = OIL: MINERAL          PATHCODE = A  T  U
MOLEWT =          NBP =          NFP =          CRITTEMP=          CRITPRES=
DENSITY = 830.0 (E) DENSTEMP= 293.2      SHPSTATE=L      ARHO = 850.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LOUPRBNO= 303.0 (E) LDLWRBND= 283.0 (E) LQVISEPT= 0.3800E-01(E) LOVISTMP= 311.2
AVIS =          BVIS =          LVUPRBNO=          LVLWRBND=          LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBNO= 273.0 (E)
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC = 855.0 (E) BHC = 3.780 (E) LHCUPENO= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.515 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBNO= 373.0 (E) VPLWRBND= 293.0 (E) AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCONSTN= -0.4200E+08(E) HTOECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLNETFMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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OMT  CHEMNAME = OIL: MOTOR          PATHCODE = A  T  U
MOLECWT =      NBP      =      CRITPRES=
DENSITY = 840.0 (E) DENSTEMP= 288.2 SHPSATE=L      ARHO = 900.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRNO= 303.0 (E) LOLWRBND= 283.0 (E) LOVISPT= 0.2750 (E) LOVISTMP= 311.2
AVIS =      BVIS =      LVUPRBNND=      LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACCN = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LOHTCPPT= 1970. (E) LOHTCPTM= 293.0 (E) AHC = 855.0 (E) SHC = 3.780 (E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTINTMP= 293.0 (E) INTFTERS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.515 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBNND= 373.0 (E) VPLWRBND= 293.0 (E) AVCP =
BVCP =      CVCP =      DVCN =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6667E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02 UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/13/03 PAGE210A
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ONF		CHEMNAME = OIL: NEATSF00T		PATHCODE = A T U	
MOLECW	=	NBP	=	NFP	= 273.0 (E) CRITTEMP=
DENSITY	=	(E) OENSTEMP=	293.2	SHPSRATE=L	ARHO = 900.0 (E) BRHO = 0.0000E+00(E)
CRHO	=	0.0000E+00(E) LOUPRNO=	303.0 (E)	LDLWPSND=	283.0 (E) LOVISPAT= 0.3875E-01(E) LOVISTMP= 311.2
AVIS	=	8VIS	=	LVUPRSND=	LVLWRB:D= LOTHRCND= 0.1310 (E)
LTHCNTMP	=	253.0 (E) ACON	=	0.1470 (E) BCON	= -0.5200E-04(E) LTCUPB:D= 323.0 (E) LTCLOBND= 273.0 (E)
LOHTCPPT	=	1970. (E) LOHTCPTM=	293.0 (E)	AHC	= 855.0 (E) EHC
LHCLOBNO	=	283.0 (E) SURFTENS=	0.2500E-01(E)	SFTNTEMP=	293.0 (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0 (E)
SOLUBPNT	=	SOLUBTMP=	A	=	B
BVP	=	2076. (E) CVP	=	0.0000E+00(E) VFUPRNO=	373.0 (E) VPLWRB:D= 293.0 (E) AVCP = 9.515 (E)
BVCP	=	CVCP	=	DVCP	= VHCLOBNO=
HTFUSION	=	LHTVAPOR=	HTCO:STN=	-0.4200E+08(E) HTDECOMP=	HTSOLUTN=
HTREACTN	=	HTPOLYMR=	LOFLMLIM=	LOFLMLIM=	BURNRATE=
TOXINHAL	=	INHALCNC=	INHALTWE=	LOTOXLIM=	0.1500E-01(E) UPTOXLIM=
LAFETOX	=	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC	=				

OOD CHEMNAME = FUEL OIL: 'D

PATHCODE = A T U

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OOL CHEMNAME = OIL: OLIVE

PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 915.0	DENSTEMP = 293.2	SHPSSTATE=L	ARHO =	712.0 (E) BRHO =	-1.000 (E)
CRHO = 0.0000E+00(E)	LOUPRENO = 313.0 (E)	LDLWRBND = 283.0 (E)	LOVISPAI =	1.600 (E)	LOVISTMP = 293.0 (E)
AVIS = -24.95 (E)	BVIS = 7450. (E)	LVUPRBND = 333.0 (E)	LVLKRB'D =	283.0 (E)	LOTHRCND = 0.1310 (E)
LTHCNTMP = 293.0 (E)	ACON = 0.1470 (E)	BCON = -0.5200E-04(E)	LTCUPB'D =	323.0 (E)	LTCLOBND = 273.0 (E)
LQHTCPPT = 2000. (E)	LQHTCPTM = 293.0 (E)	AHC = 2000. (E)	EHC =	0.0000E+00(E)	LHCUPBND = 313.0 (E)
LHCLOBND = 273.0 (E)	SURFTENS = 0.2500E-01(E)	SFTNTEMP = 293.0 (E)	INTFTENS =	0.5000E-01(E)	INTFTTMP = 293.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	9.510 (E)
EVP = 2076. (E)	CVP = 0.0000E+00(E)	VFUPRBND = 323.0 (E)	VPLKRB'D =	273.0 (E)	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPB'D =	VHCLOBND =	
HTFUSION =	LHTVAPOR =	HTCONSTN = -0.3710E+08(E)	HTDECONP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIN =	UPTOXLIM =	
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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OON  CHEMNAME = FUEL OIL: NO 1 (KEROSENE)          PATHCODE = A  T  U
MOLECW =      NBP      = 466.0  (E) NFP      = 225.0  (E) CRITTEMP=
DENSITY = 810.0  (E) DENSTEMP= 288.2  SHPSIATE=L  ARHO      = 1088.
CRHO      = 0.0000E+00  LDUPRND= 303.2  LDLW=BND= 273.2  LOVISPTJ= 0.1200E-02  LOVISSTMP= 293.2
AVIS      = -13.90  BVIS      = 2100.  LVUPRND= 298.2  LVLARELD= 233.2  LOTHRCND= 0.1314
LTHCNTMP= 293.2  ACON      = 0.1469  BCON      = -0.5233E-04  LTCUPRSD= 373.2  LTCLOBND= 253.2
LOHTCPPT= 1968.  LOHTCPTM= 293.2  AHC      = 854.8  SHC      = 3.768  LHCUPBNO= 373.2
LHCLOBND= 293.2  SURFTENS= 0.2750E-01(E) SFTNTMP= 293.2  INTFTES= 0.4800E-01(E) INTFTTMP= 293.2
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.515
BVP      = 2076.  CVP      = -0.1599  VFUPRND= 423.2  VPLWESLD= 293.2  AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPRND=
HTFUSION=      LHTVAPOR= 0.2512E+06  HTCONSTN= -0.4312E+08  HTDECCVP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM= 0.7000  UPFLMLIN= 5.000  BURNRATE= 0.6667E-04
TOXINHAL= 200.0  INHALCNC=      INHALTME=      LOTCXLM= 0.5000E-02  UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

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ED IN SI SYSTEM OF UNITS

PALM

3

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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OPN  CHEMNAME = OIL: PEANUT
MOLECW = 910.0 (E) OENSTEMP = 298.2 NFP = 271.0 CRITPRES = (E) BRHO = -1.000 (E)
CRHO = 0.0000E+00 (E) LDUPREND = 313.0 (E) LDWRBND = 283.0 (E) LOVISPLT = 1.600 (E) LQVISTMP = 293.0 (E)
AVIS = -24.95 (E) BVIS = 7450. (E) LVUPRBND = 333.0 (E) LVLWRBND = 283.0 (E) LQTHRCND = 0.1310 (E)
LTHCNTNP = 293.0 (E) ACCN = 0.1470 (E) BCCN = -0.5200E-04 (E) LTCUPBND = 323.0 (E) LTCLOBNO = 273.0 (E)
LOHTCPPT = 2000. (E) LOHTCPTM = 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00 (E) LHCUPBNO = 313.0 (E)
LHCLOBNO = 273.0 (E) SURFTENS = 0.2500E-01 (E) SFTNTMP = 293.0 (E) INTFTENS = 0.5000E-01 (E) INTFTMP = 293.0 (E)
SOLUBPNT = SOLUBTMP = A = B = AVP = 9.510 (E)
BVP = 2076. (E) CVP = 0.0000E+00 (E) VFUPRBND = 323.0 (E) VPLWRBND = 273.0 (E) AVCP = VHCLOBND =
BVCP = CVCV = DVCP = VHCUPBND = HTSOLUTN =
HTFUSICN = LHTVAPOR = HTCOMSTN = -0.3710E+08 (E) HTDECOMP = BURNRATE =
HTREACTN = LHTPOLYMR = LOFLMLIW = UPFLMLIM =
TOXINHAL = INHALCNC = INHALTME = LOTOXLIM = UPTOXLIM =
LATETOX = ABFLMTMP = MCLRATIO = AIRFUEL =
MOLFRAC =

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*****
PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS
*****
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MOLECWT =		NBP	=	NBP	=	CRITTEMP=	CRITPRES=
DENSITY =	890.0	(E) DNSTEMP=	293.2	SHPSSTATE=L	=	ARHO	= BRHO
CRHO =		LOUPRND=		LOLWRBND=		LQVISP.T=	0.5800E-02(E) LOVISTMP=
AVIS =	-18.80	(E) BVIS	= 4000.	(E) LVUPRND=	303.0	(E) LVLWRB.D=	283.0 (E) LOTHRCNO=
LTHCNTMP=	293.0	(E) ACCN	= 0.1470	(E) BCON	= -0.5200E-04(E) LTCUPBND=	323.0	(E) LTCLOBND=
LQHTCPTT=	1970.	(E) LOHTCPTM=	293.0	(E) AHC	= 855.0	(E) BHC	= 3.780 (E) LHCUPBND=
LHCLOBNO=	283.0	(E) SURFTENS=	0.2500E-01(E) SFINTEMP=	293.0	(E) INTFTENS=	0.5000E-01(E) INTFTTMP=	293.0 (E)
SOLUBPNT=		SOLUBTMP=		A	= B	=	AVP = 9.515 (E)
BVP =	2076.	(E) CVP	= 0.0000E+00(E) VFUPRND=	373.0	(E) VPLWRB.D=	293.0	(E) AVCP =
BVCP =		CVCP	=	DVCP	=	VHCUPB.D=	VHCLOBNO=
HTFUSION=		LHTVAPOR=		HTCONSTN=	-0.4200E+08(E) HTDECOMP=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		LCFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM= 0.1500E-01
LATETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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ORO  CHEMNAME = OIL: ROAO          PATHCODE = A  T  U
MOLECWt =          NBP =          CRITPRES=
DENSITY = 1000.    (E) DENSTEMP= 298.2  SHPSIATE=L          ARHO = 1050.    (E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E) LOUPBNO= 303.0    (E) LOLWPBND= 283.0    (E) LOVISPT= 0.5800E-02(E) LOVISTMP= 293.0    (E
AVIS = -18.80    (E) BVIS = 4000.    (E) LVUPRBND= 303.0    (E) LVLWRBND= 283.0    (E) LOTHRCNO= 0.1310    (E
LTHCNTMP= 293.0    (E) ACON = 0.1470    (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0    (E) LTCLOBND= 273.0    (E
LOHTCPPT= 1970.    (E) LOHTCPTM= 293.0    (E) AHC = 855.0    (E) BHC = 3.780    (E) LHCUPBNO= 313.0    (E
LHCLOBNO= 283.0    (E) SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.0    (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0    (E
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          = 9.515    (E
BVP = 2076.    (E) CVP = 0.0000E+00(E) VFUPRBNO= 373.0    (E) VPLWRBND= 293.0    (E) AVCP =          =
BVCP =          CVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOYSTN= -0.4200E+08(E) HTOECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LARETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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.....
ORG   CHEMNAME = OIL: RANGE                PATHCODE = A T U
WLEICWT = 800.0 (E) DENSTEMP= 473.0 (E) NFP = 230.0 (E) CRITTEMP=
DENSITY = 800.0 (E) DENSTEMP= 293.2 SHPSTATE=L ARHO = 1088. BRHO = -1.0000
CRHO = 0.0000E+00 LDUPRENC= 303.2 LOLLWRBND= 273.2 LQVISPT= 0.1200E-02 LOVISTMP= 293.2
AVIS = -13.90 BVIS = 2100. LVUPREND= 298.2 LVLWRBND= 233.2 LOTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LOHTCPPT= 1970. (E) LOHTCPTM= 293.0 (E) AHC = 855.0 (E) EHC = 3.780 (E) LHCUPBND= 313.0 (E)
LMCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTES= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT= SOLUBTMP= A = B = AVP = 9.515 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRNO= 373.0 (E) VPLWRBND= 293.0 (E) AVCP =
BVCP = CVCP = OVCP = VHCUPBND=
HTFUSION= LHTVAPOR= 0.2512E+0E HTCONSTN= -0.4200E+08(E) HTDECON= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= 0.7000 UPFLMLIM= 5.000 BURNRATE= 0.6667E-04
TOXINHAL= 200.0 INHALCNC= INHALTME= LOTOXLM= 0.5000E-02 UPTOXLM= 0.1500E-01
LAFETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

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AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE, (U)
DEC 76 E ATKINSON

F/G 7/2

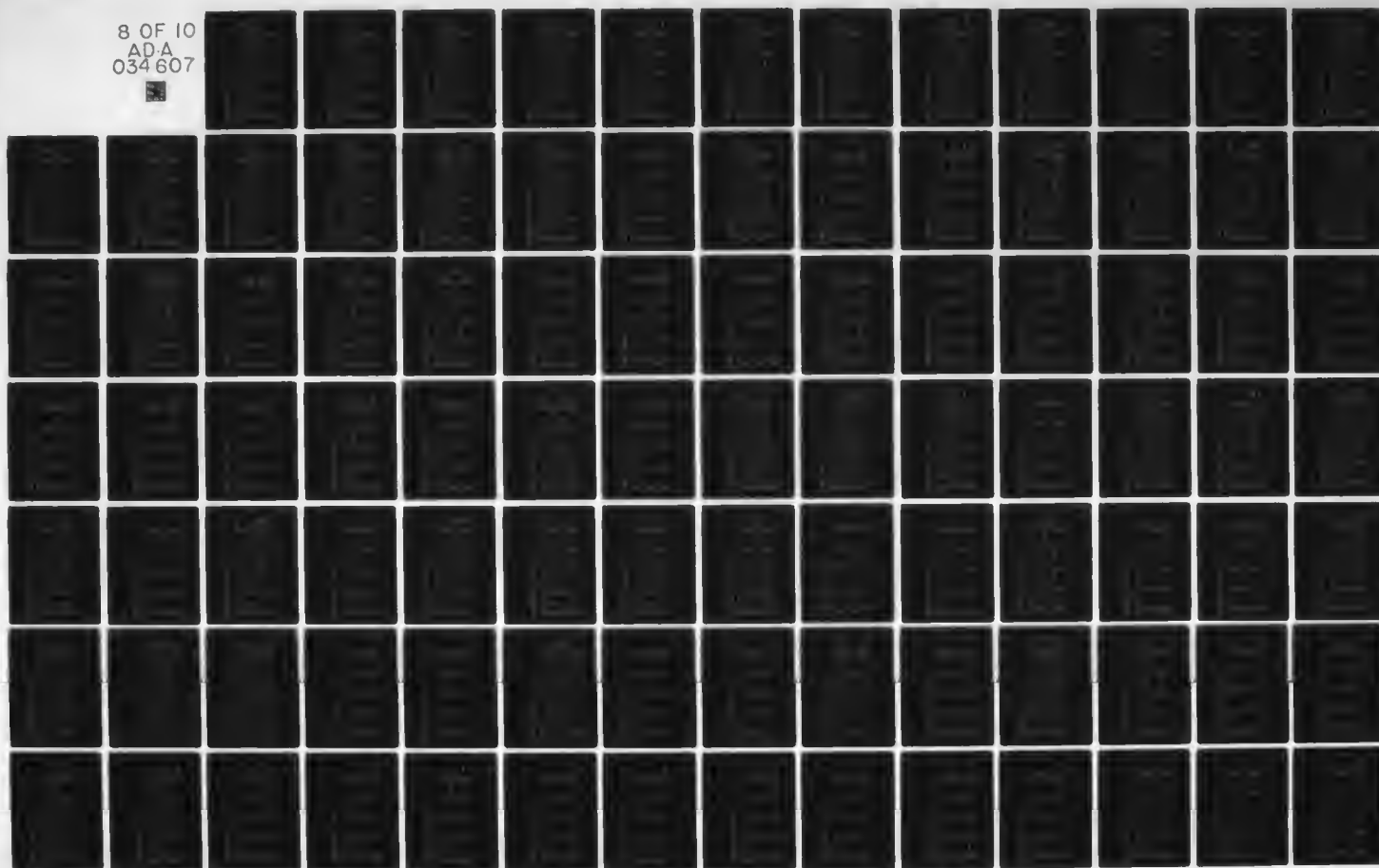
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

8 OF 10
ADA
034 607



PATHCODE = A T U

CRITTEM=

CRITPRES=

OH
=

0.0000E+001E

LQVISP!T=

373.2

LVLWRB†.C=

0.1310 (E

LT CUPB1C=

273.0 (E)

C
H
H

313.0 (E

INTERFES=

293.0 (E

||

3

9.515 (E)

VPLWRBND=

VHCUPB1.C=

HTDECOMP=

UPFLMLIN=

LOTOXLINE=

AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OSB  CHEMNAME = OIL: SOYA BEAN          PATHCODE = A  T  U
MOLEWT =          NBP =          NFP = 253.0  CRITTEMP =
DENSITY = 920.0  (E) DENSITY= 288.2  SHPSTATE=L  ARHO = 712.0  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E) LOUPRNO= 313.0  (E) LOUPRNO= 283.0  (E) LOVISPT= 1.600  (E) LOVISTMP= 293.0  (E)
AVIS = -24.95  (E) BVIS = 7450.  (E) LVUPRNO= 333.0  (E) LVLWRBND= 283.0  (E) LOTHRCND= 0.1310  (E)
LTHCNTMP= 293.0  (E) ACON = 0.1470  (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0  (E) LTCLOBND= 273.0  (E)
LQHTCPPT= 2000.  (E) LQHTCPTM= 293.0  (E) AHC = 2000.  (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0  (E)
LHCLOBND= 273.0  (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0  (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0  (E)
SOLUBPNT=          SOLUBTMP=          A =          E =          AVP = 9.510  (E)
BVP = 2076.  (E) CVP = 0.0000E+00(E) VFUPRNO= 323.0  (E) VPLWRBND= 273.0  (E) AVCP =
BVCP =          CVCP =          DVCP =          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN= -0.3710E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OSF CHEMNAME = OILS EDIBLE: SAFFLOWER

PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITEMP=	CRITPRES=	
DENSITY = 920.0	DENSTEMP= 293.1	SHPS*ATE=L	ARHO =	(E) BRHO = -0.8000	(E)
CRHO = 0.0000E+00(E)	LDUPREND= 313.1	LDLW*END= 283.1	LQVISPAT=	LOVISTMP=	
AVIS =	BVIS =	LVUPREND=	LVLW*END=	LOTHRCND= 0.1314	
LTHCNTMP= 293.1	ACON = 0.1485	(E) BCON = -0.5815E-04(E)	LTCUPB*END= 323.1	LTCLOBND= 273.1	
LQHTCPPT= 2010.	(E) LOHTCPTM= 293.1	AHC = 2010.	(E) BHC =	LHCUPBND= 313.1	
LHCLOSEND= 283.1	SURFTENS= 0.2500E-01(E)	SFTNTMP= 293.1	INTFTENS=	INTFTTMP= 293.1	
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =	
BVP =	CVP =	VFUPREND=	VPLW*END=	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUP*END=	VHCLOBND=	
HTFUSION=	LHTVAPOR=	HTCG*STN= -0.3600E+08(E)	HTDECORP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFL*MLIM=	UPFLMLIM=	BURNRATE= 0.6680E-04	
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=	
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OSP      CHEMNAME = OIL: SPERM      PATHCODE = A T U
MOLEWT =      NBP      =      CRITPRES=
DENSITY = 870.0 (E) DENSTEMP= 298.2      SHPSTATE=L      ARHO = 850.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBD= 303.0 (E) LDLWRBD= 283.0 (E) LQVISPT= 0.1715E-01(E) LQVISTMP= 311.2
AVIS =      8VIS =      LVLWRBD=      LQVISTMP= 0.1715E-01(E) LQVISTMP= 311.2
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) 8CON = -0.5200E-04(E) LTCUPBD= 323.0 (E) LTCLOBND= 273.0 (E)
LOHTCPPT= 1970. (E) LOHTCPTM= 293.0 (E) AHC = 855.0 (E) BHC = 3.780 (E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0 (E)
SOLUBPNT=      A =      B =      AVP = 9.515 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBD= 373.0 (E) VPLWRBD= 293.0 (E) AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTCOM/STN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=
LAFETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OSX  CHEMNAME = FUEL OIL: 6          PATHCODE = A  T  U
MOLEWT =          NBP =          485.0 (E) NFP =          285.0 (E) CRITTEMP=          CRITPRES=
DENSITY =          950.0 (E) DENSTEMP=          293.2 SHPSRATE=L          ARHO =          900.0 (E) BRMO =          0.0000E+00(E)
CRHO =          0.0000E+00(E) LDUPRBD=          303.0 (E) LDLWRSD=          283.0 (E) LOVISPT=          0.4935 (E) LOVISTMP=          311.2
AVIS =          BVIS =          LVUPRBD=          LVLWRBD=          LOTHRCMD=          0.1310 (E)
LTHCNTMP=          293.0 (E) ACON =          0.1470 (E) BCON =          -0.5200E-04(E) LTCUPRBD=          323.0 (E) LTCLOBND=          273.0 (E)
LOHTCPPT=          1970. (E) LOHTCPTM=          293.0 (E) AHC =          855.0 (E) BHC =          3.780 (E) LHCUPRBD=          313.0 (E)
LHCLOBND=          283.0 (E) SURFTENS=          0.2500E-01(E) SFTNTEMP=          293.0 (E) INTFTENS=          0.5000E-01(E) INTFTTMP=          293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          9.515 (E)
BVP =          2076. (E) CVP =          0.0000E+00(E) VFUPRBD=          373.0 (E) VPLWRBD=          293.0 (E) AVCP =          VHCLOBND=
BVCP =          CVCP =          DVCP =          VHCUPRBD=          HTSOLUTN=
HTFUSION=          LHTVAPOR=          HTCON:BTN=          -0.4200E+08(E) HTDECOMP=          BURNRATE=          0.6667E-04
HTREACTN=          HTPOLYMR=          LOFLMLIM=          1.000          LPFLMLIM=          5.000          UPTOX LIM=          0.1500E-01
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          0.5000E-02          FLMETEMP=
LATETOX =          ABFLNTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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OSY  CHEMNAME = OIL: SPRAY          PATHCODE = A  T  U
MOLECW =      N8P      = 583.0 (E) NFP      =      CRITTEMP=
DENSITY = 820.0      DENSTEMP= 288.2      SHPSTATE=L      ARHO      = 1113.      BRHO      = -1.0000
CRHO      = 0.0000E+00      LDUPRSND= 303.2      LDWRSND= 273.2      LQVISPAT= 0 2050E-02      LQVISTMP= 293.2
AVIS      = -12.95      BVIS      = 1982.      LVUPRSNO= 298.2      LVLWRB'D=      LQVISTMP= 293.2      LQVISTMP= 293.2
LTHCNTMP= 293.0 (E) ACON      = 0.1470 (E) BCON      = -0.5200E-04(E) LTCUPB'D= 323.0 (E) LTCLOBNO= 273.0 (E)
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC      = 855.0 (E) BHC      = 3.780 (E) LHCUPBNO= 313.0 (E)
LHCL08ND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A      =      8      =      AVP      = 9.515 (E)
BVP      = 2076. (E) CVP      = 0.0000E+00(E) VPUPRSNO= 373.0 (E) VPLWRB'D= 293.0 (E) AVCP      =
BVCP      =      CVCP      =      OVCP      =      VHCUPB'D=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.4200E+08(E) HTOECON=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.6000      UPFLMLIM= 4.600      BURNRATE= 0.6667E-04
TOXINHAL= 200.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAJETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OTA  CHEMNAME = OCTANOL
      MOLEWT = 130.2      NBP = 468.0      NFP = 258.0      CRITTEMP= 658.0      CRITPRES= 0.2758E+07
      DENSITY = 829.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1066.      BRHO = -0.8100
      CRHO = 0.0000E+00      LOUPRNO= 333.2      LOLWRNO= 273.2      LOVISPNT= 0.8930E-02      LOVISTMP= 293.2
      AVIS = -15.70      BVIS = 3220.      LVUPRNO= 333.2      LVLWRNO= 283.2      LOTHRCNO= 0.1600 (E)
      LTHCNTMP= 298.0 (E) ACON = 0.1600 (E) BCON = 0.0000E+00(E) LTCUPRNO= 303.0 (E) LTCLOBNO= 293.0 (E)
      LHCTCPPT= 2500. (E) LHCTCPTM= 298.0 (E) AHC = 2500. (E) BHC = 0.0000E+00(E) LHCUPRNO= 303.0 (E)
      LHCLOBNO= 293.0 (E) SURFTENS= 0.2750E-01      SFTNIEMP= 293.2      INTFTENS= 0.8520E-02      INTFTTMP= 293.2
      SOLUBPNT= 0.6000      SOLUBTMP= 293.2      A = 8      AVP = 9.061
      BVP = 1383.      CVP = -127.3      VFUPRNO= 523.2      VPLWRNO= 293.2      AVCP = 0.2621E+05
      BVCP = 647.9      CVCP = -0.1989      OVCP = 0.0000E+00      VHCUPRNO= 600.0      VHCLOBNO= 250.0
      HTFUSION=      LHTVAPOR= 0.4082E+06      HTCOWSTN= -0.3753E+08      HTOECOMP=      HTSOLUTN=
      HTRACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6167E-04(E)
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OT8  CHEMNAME = OILS MISCELLANEOUS: TURBINE          PATHCODE = A  T  U
      MOLEWT = 260.0 (E) NBP =                      NFP =          CRITTEMP=          CRITPRES=
      DENSITY = 870.0 DENSTEMP= 293.1                SHPSTATE=L      ARHO =          1163. (E) BRHO =          -1.000 (E)
      CRHO = 0.0000E+00(E) LDUPRBD= 303.1              LDLWRBD= 278.1              LQVISPNT=          LOVISTMP=
      AVIS =                      BVIS =              LVUPRBD=          LVLWRBD=          LQTHRCND=          0.1314
      LTHCNTMP= 293.1 ACON = 0.1485 (E) BCON = -0.5815E-04(E) LTCUPBD= 323.1 LTCLOBND=          273.1
      LQHTCPT= 2010. (E) LOHTCPTM= 293.1 AHC = 2010. (E) BHC =          0.0000E+00(E) LHCUPBD=          303.1
      LHCLOBND= 283.1 SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.1 INTFTENS=          0.5000E-01(E) INTFTTMP=          293.1
      SOLUBPNT=                      SOLUBTMP=          A =          B =          AVP =
      BVP =                      CVP =          VFUPRBD=          VPLWRBD=          AVCP =
      BVCP =                      CVCP =          DVCP =          VHCUPBD=          VHCLOBND=
      HTFUSION=                      LHTVAPOR=          HTCOWSTN= -0.4100E+08(E) HTDECOMP=          HTSOLUTN=
      HTREACTN=                      HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=          0.6680E-04(E)
      TOXINHAL= 0.4310 (E) INHALCNC=                      INHALTIME=          LOTOXLIM=          0.1500E-01(E) UPTOXLIM=
      LATETOX =                      ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OTC  CHEMNAME = OILS EDIBLE: TUCUM          PATHCODE = A  T  U
      MOLECW =      NBP =      CRITPRES=
      DENSITY = 893.0  DENSTEMP= 333.1  SHPSIATE=L  CRITTEMP=
      CRHO = 0.0000E+00(E) LDUPREND= 333.1  LDLWRBND= 303.1  LOVISPNT=  ARHO = 1126.  (E) BRHO = -0.7000  (E)
      AVIS =      BVIS =      LVLWRBND=  LVUPRBND=  LVLWRBND=  LQTHRCND= 0.1314  (E)
      LTHCNTMP= 293.1  ACON = 0.1485  (E) BCDN = -0.5B15E-04(E) LTCUPBND= 323.1  LTCLOBND= 273.1
      LQHTCPPT= 2010.  (E) LOHTCPTM= 303.1  AHC = 2010.  (E) SHC = 0.0D00E+00(E) LHCUPBND= 323.1
      LHCLOBND= 303.1  SURFTENS= 0.2500E-01(E) SFTNTMP= 303.1  INTFTENS= 0.5000E-01(E) INTFTMP= 303.1
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
      BVP =      CVP =      VFUPRBND=  VPLWRBND=  AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=  VHCLOBND=
      HTFUSION=      LHTVAPOP=      HTCOASTN= -0.3600E+08(E) HTDECOMP=  HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=  BURNRATE= 0.6680E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=  UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=  AIRFUEL =  FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OTD   CHEMNAME = FUEL OIL: 2-0          PATHCODE = A   T   U
MOLEWT =          NBP =          555.0   (E) NFP =          255.0   CRITTEMP=
DENSITY = 870.0   (E) DENSTEMP= 293.2   SHPSTATE=L   ARHO =          850.0   (E) BRHO =          0.0000E+00(E
CRHO = 0.0000E+00(E) LOUPRBND= 303.0   (E) LDLWREND= 283.0   (E) LQVISPNT= 0.2000E-02   LQVISTMP= 293.2
AVIS = -10.52     BVIS =          1261.   LVUPRSND= 373.2   LVLWRBND= 253.2   LQTHRCNO=          0.1310   (E
LTHCNTMP= 293.0   (E) ACON =          0.1470   (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0   (E) LTCLOBND= 273.0   (E
LQHTCPPT= 1970.   (E) LQHTCPTM= 293.0   (E) AHC =          855.0   (E) BHC =          3.780   (E) LHCUPBND= 313.0   (E
LHCLOBNO= 283.0   (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0   (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0   (E
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          9.515   (E
BVP = 2076.   (E) CVP =          0.0000E+00(E) VFUPRSND= 373.0   (E) VPLWRBND= 293.0   (E) AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCON:STN= -0.4200E+08(E) HTDECOMP=          VHCLOBND=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.300   LPFLMLIM=          6.000   BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          0.5000E-02   UPTOXLIM= 0.1500E-01
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OTF  CHEMNAME = OIL: TRANSFORMER          PATHCODE = A  T  U
MOLEWT =      NBP      =      CRITPRES=
DENSITY = B80.0      OENSTMP= 288.2      SHPSTATE=L      NFP      = 214.0      CRITTENP=
CRHO      = 0.0000E+00(E) LDUPRBND= 303.0      (E) LDLRBND= 283.0      (E) LQVISPT= 0.1025E-01(E) LOVISTMP= 311.2      (E) BRHO      = 0.0000E+00(E)
AVIS      =      BVIS      =      LVUPRBND=      LVLRBND=      LQTHRCND= 0.1310      (E)
LTHCNTMP= 293.0      (E) ACCN      = 0.1470      (E) BCON      = -0.5200E-04(E) LTCUPBND= 323.0      (E) LTCLOBND= 273.0      (E)
LOHTCPPT= 1970.      (E) LOHTCPTM= 293.0      (E) AHC      = 855.0      (E) BHC      = 3.780      (E) LHCUPBND= 313.0      (E)
LHCLOBNO= 283.0      (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0      (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0      (E)
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.515      (E)
BVP      = 2076.      (E) CVP      = 0.0000E+00(E) VFUPRBND= 373.0      (E) VPLWRBND= 293.0      (E) AVCP      =
BVCP      =      CVCP      =      OVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOM#3TN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALIME=      LOTOXLM= 0.5000E-02      UPTOXLM= 0.1500E-01
LATETOX      =      ABFLMTMP=      MOLRATIO=      AIRFUEL      =      FLMETEMP=
MOLFRAC      =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OTL CHEMNAME = OIL: TALL PATHCODE = A T U

MOLECW =	NBP =	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 935.0	DENSTEMP = 298.2	SHPSSTATE=L	ARHO =	BRHO =	-1.700
CRHO = 0.0000E+00	LDUPRND = 333.2	LDLWPSNO = 273.2	LQVISPT =	LQVISTMP =	311.2
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LQTHRCND =	0.1310 (E)
LTHCNTMP = 293.0 (E)	ACON = 0.1470 (E)	BCON = -0.5200E-04(E)	LTCUPBND =	LTCLOBND =	273.0 (E)
LQHTCPPT = 1970. (E)	LQHTCPTM = 293.0 (E)	AHC = 855.0 (E)	BHC =	LHCUPBND =	313.0 (E)
LHCLOBNO = 283.0 (E)	SURFTENS = 0.2500E-01(E)	SFTNTMP = 293.0 (E)	INTFTENS =	INTFTTMP =	293.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	9.515 (E)
BVP = 2076. (E)	CVP = 0.0000E+00(E)	VFUPRNO = 373.0 (E)	VPLWRND =	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBNO =	
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.4200E+08(E)	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLWLIN =	UPFLMLIN =	BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIN =	UPTOXLIM =	
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
OTN   CHEMNAME = OIL: TANNER'S          PATHCODE = A   T   U
MOLECW =          NBP =          CRITTEMP=
DENSITY =          DENSTEMP=
CRHO = 0.0000E+00(E) LDUPRND= 303.0 (E) SHPSTATE= 283.0 (E) ΔRHO = 850.0 (E) BRHO = 0.0000E+00(E)
AVIS = -18.80 (E) BVIS = 4000. (E) LVUPRND= 303.0 (E) LVLWRBND= 283.0 (E) LOTHRCND= 0.5800E-02(E) LOVISTMP= 293.0 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LOHTCPPT= 1970. (E) LOHTCPTM= 293.0 (E) AHC = 855.0 (E) EHC = 3.780 (E) LHCUPEND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.515 (E)
8VP = 2076. (E) CVP = 0.0000E+00(E) VFUPRND= 373.0 (E) VPLWRBND= 293.0 (E) AVCP =
8VCP =          CVCP =          VHCUPEND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCO:STN= -0.4200E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OTW CHEMNAME = FUEL OIL: 2

PATHCODE = A T U

MOLEWT =	NBP =	555.0	(E) NFP =	244.0	CRITTEMP =	CRITPRES =
DENSITY =	870.0	(E) DENSTEMP =	293.2	SHPSTATE=L	ARHO =	850.0 (E) BRHO = 0.0000E+00(E)
CRHO =	0.0000E+00(E)	LDUPR8ND =	303.0	(E) LDLWR8ND =	283.0	(E) LOVISPT = 0.2000E-02 LOVISTMP = 293.2
AVIS =	-10.52	BVIS =	1261.	LVUPR8ND =	373.2	LVLWR8ND = 253.2 LOTHRCND = 0.1310 (E)
LTHCNTMP =	293.0	(E) ACON =	0.1470	(E) BCON =	-0.5200E-04(E)	LTCUPBND = 323.0 (E) LTCLOBND = 273.0 (E)
LQHTCPT =	1970.	(E) LQHTCPTM =	293.0	(E) AHC =	855.0	(E) BHC = 3.780 (E) LHCUPBND = 313.0 (E)
LHCLOBND =	283.0	(E) SURFTENS =	0.2500E-01(E)	SFTNTEMP =	293.0	(E) INTFTERS = 0.5000E-01(E) INTFTTMP = 293.0 (E)
SOLUBPNT =		SOLUBTMP =		A =	B =	AVP = 9.515 (E)
BVP =	2076.	(E) CVP =	0.0000E+00(E)	VFUPR8NO =	373.0	(E) VPLWR8ND = 293.0 (E) AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND = VHCLOBND =
HTFUSIGN =		LHTVAPOR =		HTCOMBTN =	-0.4200E+08(E)	HTDECOMP = HTSOLUTN =
HTREACTN =		HTPOLYMR =		LOFLW/LIM =		UPFLW/LIM =
TOXINHAL =		INHALCNC =		INHALTME =		LOTOXLIM = 0.5000E-02 UPTOXLIM = 0.1500E-01
LATEFOX =		ABFLMTMP =		MOLRATIO =		AIRFUEL = FLMETEMP =
MOLFRAC =						BURNRATE = 0.6667E-04

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

OXA CHEMNAME = OXALIC ACID

PATHCODE = SS

MOLEWT = 126.1	NBP =		NFP = 374.7	CRITTEMP=	CRITPRES=
DENSITY = 1900.	DENSTEMP= 288.2		SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=		LDLWRND=	LOVISINT=	LOVISTMP=
AVIS =	BVIS =		LVUPRND=	LVLWRND=	LOTHRCND=
LTHCNTMP=	ACON =		BCON =	LTCUPBND=	LTCLOBND=
LQHTCPTP=	LQHTCPTM=		AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=		SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=		A = -94.84	B = 0.3600	AVP =
BVP =	CVP =		VFUPRND=	VPLWRND=	AVCP =
BVCP =	CVCP =		DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	HTVAPOR=		HTCORSTN=	HTDECONP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=		LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=		INHALTME=	LOTOXLIM=	UPTOXLIM=
LAETOX =	ABFLMTMP=		MOLRATIO=		FLMETEMP=
MOLFRAC =					

0.5000E-03

0.5000E-04

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OXY	CHEMNAME = OXYGEN. LIQUEFIED	PATHCODE = A 1	
MOLECW	= 32.00	NBP	= 90.30
DENSITY	= 1140.	DENSTEMP	= 90.15
CRHO	= 0.0000E+00	LDUPRND	= 140.1
AVIS	= -10.64	BVIS	= 186.0
LTHCNTMP	= 90.15	ACON	= 0.1500 (E)
LQHTCPPT	= 1700.	LQHTCPTM	= 90.15
LHCLOBND	= 83.15	SURFTENS	= 0.1347E-01
SOLUBPNT	=	SOLUBTMP	=
BVP	= 377.0	CVP	= -0.1500
BVCP	= 0.0000E+00	CVCP	= 0.0000E+00
HTFUSION	=	LHTVAPOR	= 0.2130E+06
HTREACTN	=	HTPOLYMR	=
TOXINHAL	=	INHALCNC	=
LATETOX	=	ABFLMTMP	=
MOLFRAC	=		
		NFP	= 55.00
		SHPSTATE=L	
		LDLWRBND	= 90.15
		LVUPPSND	= 123.1
		(E) BCON	= 0.0000E+00(E)
		AHC	= 1700.
		SFTNTMP	= 90.15
		A	=
		VFUPRND	= 100.1
		DVCP	= 0.0000E+00
		HTCOMSTN	=
		LOFLMLIM	=
		INHALTME	=
		MOLRATIO	=
		CRITTEMP	= 155.0
		CRHO	= 1736.
		LOVISPT	= 0.1880E-03
		LVLWRBND	= 83.15
		LTCUPBND	= 103.1
		EHC	= 0.0000E+00
		INTFTENS	=
		B	=
		VPLWRBND	= 92.15
		VHCUPBND	= 400.0
		HTDECOMP	=
		UPFLMLIM	=
		LOTOXLIM	=
		AIRFUEL	=
		CRITPRES	= 0.5090E+07
		BRHO	= -6.600
		LOVISTMP	= 90.15
		LOTHRCND	= 0.1500
		LTCLOBND	= 83.15
		LHCUPBND	= 93.15
		INTFTTMP	=
		AVP	= 9.181
		AVCP	= 0.2931E+05
		VHCLOBND	= 250.0
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	=
		FLMETEMP	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PAH  CHEMNAME = PROPIONIC ANHYDRIDE      PATHCODE = A  0  X  Y
MOLECWT = 130.1      NBP = 442.0      NFP = 230.D      CRITTEMP= 622.D      CRITPRES= 0.330DE+07
DENSITY = 1010.      OENSTEMP= 293.1      SHPSRATE=L      ARHO = 1330.      BRHO = -1.100
CRHO = 0.000DE+00      LOUPRBND= 373.1      LDLWRBND= 273.1      LOVISFNT= D.112DE-02      LOVISTMP= 293.1
AVIS = -11.20      BVIS = 1290.      LVUPRBND= 373.1      LVLWRBND= 273.1      LOTHRCND= 0.1314
LTHCNTMP= 293.1      ACON = 0.1472      BCON = -0.5350E-04      LTCUPBND= 373.1      LTCLOBND= 273.1
LOHTCPPT= 1784.      LOHTCPTM= 293.1      AHC = 1170.      EHC = 2.093      LHCUPBND= 373.1
LHCLQ3ND= 273.1      SURFTENS= 0.300DE-01      SFTNTEMP= 298.1      INTFTENS=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.53
BVP = 2440.      CVP = -0.1500      VFUPPBND= 453.1      VPLWRBND= 293.1      AVCP = 0.7101E+05
BVCP = 308.6      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 6DD.0      VHCLOBNO= 250.0
HTFUSION=      LHTVAPOR= 0.350DE+06      HTCOMBTN= -0.240DE-08      HTDECDMP=      HTSOLUIN= -0.840DE+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.480      UPFLMLIM= 11.90      BURNRATE= 0.5010E-04
TOXINHAL=      INHALCNC=      INHALTIME=      LOTOXLIM= 0.5D0DE-02(E)      UPTOXLIM= 0.150DE-01(E)
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PAL  CHEMNAME = N-PROPYL ALCOHOL          PATHCODE = A  P  O
MOLEWT = 60.10      NBP = 370.4      NFP = 147.0      CRITTEVP= 536.8      CRITPRES= 0.5200E+07
DENSITY = 803.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1044.      BRHO = -0.8200
CRHO = 0.0000E+00      LDUPRBND= 333.2      LDLPBND= 273.2      LOVISPRIT= LOVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 2345.      LQHTCPTM= 293.2      AHC = -338.9      BHC = 9.211      LHCUPBND= 353.2
LHCLOBND= 263.2      SURFTENS=      SFNTTEMP=      INTFTENS=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.64
BVP = 2469.      CVP = 0.4004E-01      VFUPRBND= 333.2      VPLWRBND= 253.2      AVCP = 0.1784E+05
BVCP = 251.2      CVCP = -0.6280E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLCBND= 250.0
HTFUSION=      LHTVAPOR= 0.6808E+06      HTCOMSTN= -0.3055E+08      HTDECMP=      HTSOLUTN= -0.2000E+05(E
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.100      UPFLMLIM= 13.50      BURNRATE= 0.4833E-04
TOXINHAL= 200.0      INHALCNC= 400.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SJ SYSTEM OF UNITS

PAN CHEMNAME = PHTHALIC ANHYDRIDE

Y
X

MOLWCWT =	148.1	NBP =	557.8	NFP =	404.0	CRITTEMP=	CRITPRES=
DENSITY =	1200.	DENSTEMP=	408.2	SHPSRATE=L		ARHO =	BRHO =
CRHO =	0.0000E+00	LDUPRBD=	473.2	LOLWRBD=	408.2	LQVISPR.T=	LQVISTMP=
AVIS =	-11.D6	8VIS =	1753.	LVUPRBD=	473.2	LVLWRB.D=	LQTHRCND=
LTHCNTMP=		ACON =		8CON =		LTCUPB.D=	LTCLOBND=
LQHTCPPT=	1654.	LQHTCPTM=	405.2	AHC =	636.8	BHC =	LHCUPBND=
LHCLOBND=	405.2	SURETENS=	0.355DE-01	SFTNTMP=	428.2	INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =		B =	AVP =
8VP =	1940.	CVP =	-83.16	VFUPRBD=	613.2	VPLWRB.D=	AVCP =
8VCP =	653.6	CVCP =	-0.4271	DVCP =	0.1009E-03	VHCUPB.D=	VHCLOBND=
HTFUSION=	0.1583E+06	LHTVAPOR=	0.4396E+06	HTCOR3TN=	0.2204E+08	HTDECDMP=	HTSOLUTN=
HTREACTN=	-0.2964E+06	HTPOLYMR=		LOFLMLIM=	1.700	UPFLMLIM=	BURNRATE=
TOXINHAL=	2.000	INHALCNC=	4.000	INHALTME=	600.0	LOTOXLIM=	UPTOXLIM=
LATETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =							

PAS	CHEMNAME = POTASSIUM ARSENATE			PATHCODE = SS		
MOLEWT =	180.0	NBP =	NFP =	561.0	CRITPRES=	
OENSITY =	2800.	OENSTEMP=	SHPSTATE=S	293.1	ARHO =	BRHO =
CRHO =		LOUPREND=	LWLPRND=		LQVISPNT=	LQVISTMP=
AVIS =		BVIS =	LVUPRND=		VLWLRBND=	LQTHRCND=
LTHCNTMP=		ACON =	BCON =		LTCUPBND=	LTCLOBND=
LOHTCPPT=		LOHTCPTM=	AHC =		BHC =	LHCUPEND=
LHCLOBNO=		SURFTENS=	SFTNTEMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=	20.00	SOLUBTMP=	A =	293.1	B =	AVP =
BVP =		CVP =	VfUPRND=		VPLWRBND=	AVCP =
BVCP =		CVCP =	DVCP =		VHCUPBND=	VHCLOBNO=
HTFUSION=		LHTVAPOR=	HTCONSTN=		HTDECONP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	LOFLMLIM=		UPFLMLIN=	BURNRATE=
TOXINHAL=	0.6230E-01	INHALCNC=	INHALTIME=		LOTOXLIN=	UPTOXLIM=
LATEOX =		ABFLMTMP=	MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =						
						0.1100E+06

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
*****
PAT  CHEMNAME = N-PROPYL ACETATE
      MOLECW = 102.1      NBP = 374.8      NFP = 178.2      CRITTEMP = 549.0      CRITPRES = 0.3300E+07
      DENSITY = 886.0      DENSTEMP = 293.2      SHPSTATE=L      ARHO = 1208.      BRHO = -1.100
      CRHO = 0.0000E+00      LDUPRND = 333.2      LDWRND = 273.2      LQVISPAT = 0.576DE-03      LQVISTMP = 293.2
      AVIS = -11.26      8VIS = 1115.      LVUPRND = 333.2      LVLWRB:D = 283.2      LQTHRCND = 0.1400      (E)
      LTHCNTMP = 303.0      (E) ACON = 0.1400      (E) BCON = 0.0000E+00(E)      LTCUPB:D = 303.0      (E) LTCLOBND = 273.0      (E)
      LQHTCPPT = 1926.      LQHTCPTM = 293.2      AHC = 698.5      BHC = 4.187      LHCUPBND = 313.2
      LHCLOBND = 273.2      SURFTENS = 0.243DE-01      SFTNTMP = 293.2      INTFTENS = 0.5000E-01(E)      INTFTMP = 293.0      (E)
      SOLUBPNT = 2.000      SOLUBTMP = 293.2      A = 1.000      B = 1.000      AVP = 9.173
      BVP = 1294.      CVP = -64.16      VFUPRND = 413.2      VPLWRBND = 273.2      AVCP = 0.1985E+05
      BVCP = 403.2      CVCP = -0.1424      DVCP = -0.7536E-05      VHCUPBND = 600.0      VHCLOBND = 250.0
      HTFUSION = 1294.      LHTVAPOR = 0.3362E+06      HTCOMSTN = -0.2800E+08(E)      HTDECOMP = 8.000      HTSOLUTN = 0.5000E-02
      HTREACTN = 200.0      HTPOLYMR = 2.000      LOFLMLIM = 8.000      UPFLMLIM = 8.000      BURNRATE = 0.5000E-03
      TOXINHAL = 200.0      INHALCNC = 2.000      INHALTME = 0.5000E-03      LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
      LATETOX = 200.0      ABFLMTMP = 2.000      MOLRATIO = 0.5000E-03      FLMETEMP = 0.5000E-02
      MOLFRAC = 200.0
```


MOLEWT =	128.1	=	NBP	=	NFP	=	CRITTEMP=	CRITPRES=	
DENSITY =	2000.	=	DENSTEMP=	293.1	=	SHPSSTATE=S	ARHO	=	BRHO
CRHO =		=	LDUPREND=		=	LDLWRBND=	LQVISINT=		LQVISTMP=
AVIS =		=	BVIS	=		LVUPRND=	LVLWRBND=		LQTHRCND=
LTHCNTMP=		=	ACCN	=		BCON	LTCUPBND=		LTCLOBND=
LQHTCPT=		=	LQHTCPTM=		=	AHC	BHC	=	LHCUPBND=
LHCLOBND=		=	SURFTENS=		=	SFTNTMP=	INTFTENS=		INTFTTMP=
SOLUBPNT=	2.240	=	SOLUBTMP=	273.1	=	A	B	=	AVP
BVP =		=	CVP	=		VFUPRND=	VPLWRBND=		AVCP
BVCP =		=	CVCP	=		DVCP	VHCUPBND=		VHCLOBND=
HTFUSION=		=	LHTVAPOR=		=	HTCOMSTN=	HTDECOMP=		HTSOLUTN=
HTREACTN=		=	HTPOLYMR=		=	LCFLMLIM=	UPFLMLIN=		BURNRATE=
TOXINHAL=		=	INHALCNC=		=	INHALTME=	LCTOXLIM=	0.5000E-04	UPTOXLIM=
LARETOX =		=	ABFLMTMP=		=	MOLRATIO=	AIRFUEL	=	CLMETEMP=
MOLFRAC =		=			=				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

P8P  CHEMNAME = PROPYLENE BUTYLENE POLYMER      PATHCODE = A  T  U
MOLECWT =      NBP =      CRITTEMP=
DENSITY =      DENSTEMP=      ARHO =
CRHO =      LDUPRBND=      LQVISPT=
AVIS =      BVIS =      LVLWRBND=
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0 (E) LTCLOBND= 283.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VFUPRBND=      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN= -0.4000E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLWTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

```

*****
PBR  CHEMNAME = PHOSPHORUS TRIBROMIDE          PATHCODE = A  0

      MOLEWT = 270.7      NBP = 446.0      NFP = 232.7      CRITPRP=
      DENSITY = 2880.      OENSTEMP= 298.1      SHPSTATE=L      ARHO = 3178.      (E) BRHO = -1.000      (E
      CRHO = 0.0000E+00(E) LDUPRND= 303.1      LDWRBND= 283.1      LOVISPT= 0.1920E+02      LOVISTMP= 293.1
      AVIS = -9.645      BVIS = 993.9      LVUPRND= 313.1      LVLWRBND= 278.1      LQTHRCNO=
      LTHCNTMP=          ACON =          LTCUPBND=          LTCLOBND=
      LQHTCPPT=          LQHTCPTM=          AHC =          EHC =          LHCUPBNO=
      LHCLOBND=          SURFTENS= 0.4580E-01      SFTNTMP= 297.1      INTFTES=          INTFTTMP=
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.803
      BVP = 2138.      CVP = -0.1500      VFUPRND= 443.1      VPLWRBND= 313.1      AVCP = 0.7603E+05
      BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 300.0      VHCLOBND= 280.0
      HTFUSION=          LHTVAPOR= 0.1500E+06      HTCOMSTN=          HTDECOMP=          HTSOLUTN= -0.1040E+07
      HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PCB  CHEMNAME = POLYCHLORINATED BIPHENYL (PCB)          PATHCODE = II
MOLEWT =          NBP =          NFP =          CRITTEMP=          CRITPRES=
DENSITY = 1300. (E) DENSTEMP= 293.2 SHPSIATE=L          ARHO = 1800. (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LOUPRBND= 303.0 (E) LDLWRBND= 293.0 (E) LOVISPNT=          LOVISTMP=
AVIS =          BVIS =          LVUPRBND=          LVLWRBND=          LOTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
LOHTCPPT=          LOHTCPTM=          AHC =          BHC =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRBND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMBTN=          HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETENP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PCH  CHEMNAME = POTASSIUM CHROMATE          PATHCODE = SS
      MOLECW = 194.2      NBP =              CRITPRES =
      DENSITY = 2730.      DENSTEMP = 291.1  SHPSTATE =
      CRHO =              LDUPRBN =          LOVISPNT =
      AVIS =              BVIS =             LVLWRBN =
      LTHCNTMP =          ACON =             LTCUPBN =
      LQHTCPPT =          LQHTCPTM =          BHC =
      LHCLOBND =          SURFTENS =          INTFTENS =
      SOLUBPNT = 64.00    SOLUBTMP = 293.1  A = -38.60
      BVP =              CVP =              VPLWRBN =
      BVCP =              CVCP =             VHCUPBN =
      HTFUSION =          LHTVAPOR =          HTSOLUTN =
      HTREACTN =          HTPOLYMR =          UPFLMLIM =
      TOXINHAL = 0.1154   INHALCNC =          LOTOXLIM = 0.5000E-04
      LAETOX =            ABFLMTMP =          AIRFUEL =
      MOLFRAC =          MOLRATIO =
*****
      CRITPRES =
      BRHO =
      LOVISPNT =
      LOTHRCND =
      LTCLOBND =
      LHCUPBN =
      INTFTIMP =
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM = 0.5000E-03
      FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PCL  CHEMNAME = PERCHLORIC ACID          PATHCODE = A  P
MOLECW = 100.5      NBP =                CRITTEMP =
DENSITY = 1650.      (E) DENSTEMP = 298.1  ARHO =
CRHO =              LDUPRBND =            LOVISPT =
AVIS =              BVIS =                LVLWRBND =
LTHCNTMP =          ACON =                LTCUPBND =
LOHTCPPT =          LOHTCPTM =            BHC =
LHCLOBND =          SURFTENS =            INTFTMP =
SOLUBPNT =          SOLUBTMP =            AVP =
BVP =               CVP =                 AVCP =
BVCP =              CVCP =                VHCLOBND =
HTFUSION =          LHTVAPOR =            HTSOLUTN =
HTREACTN =          HTPOLYMR =            UPFLMLIM =
TOXINHAL =          INHALCNC =            LOTOXLIM =
LATETOX =           ABFLMTMP =            AIRFUEL =
MOLFRAC =           MOLRATIO =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PCM  CHEMNAME = PERCHLOROMETHYL MERCAPTAN      PATHCODE = A  0  X
MOLEWT = 185.9      NBP = 421.0      NFP =      CRITTEMP=
DENSITY = 1700.      DENSTEMP= 293.1      SHPSTATE=L      ZRHO =      CRITPRES=
CRHO = 0.0000E+00(E) LDUPRND= 298.1      LDWRBND= 283.1      LOVISPT=      LOVISTMP=      (E) BRHO = -1.000 (E)
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LOTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON =      LTCUPBND= 298.1      LTCLOBND= 283.1
LOHTCPPT= 1256.      (E) LOHTCPTM= 293.1      AHC = 1256.      (E) BHC =      LHCUPBND= 303.1
LHCLOBND= 288.1      SURFTENS= 0.3502E-01      SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VFUPRND=      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2200E+06(E) HTCOMBNTN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.1000      INHALCNC=      INHALTME=      LOTXLIM=      UPTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PCP CHEMNAME = PENTACHLOROPHENOL

PATHCODE = 11

MOLEWT =	266.3	NBP =	583.0	NFP =	461.0	CRITTEMP=	CRITPRES=
DENSITY =	1980.	DENSTEMP=	288.2	SHPSTATE=\$		ARHO =	BRHO =
CRHO =		LDUPREND=		LDLWR9ND=		LOVISPNT=	LQVISTMP=
AVIS =		BVIS =		LVUPRSND=		LVLWRBND=	LQTHRCND=
LTHCNTMP=		ACCN =		BCON =		LTCUPBND=	LTCLO8ND=
LQHTCPPT=		LQHTCPTM=		AHC =		BHC =	LHCUPEND=
LHCLOBND=		SURFTENS=		SFTNTEMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=	0.1000	(E) SOLUBTMP=	298.2	A =		B =	AVP =
BVP =		CVP =		VFUPREND=		VPLWRBND=	AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND=	VHCLOBND=
HTFUSIGN=		LHTVAPOR=		HTCOM9STN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIN=	BURNRATE=
TOXINHAL=	0.4200E-01	INHALCNC=		INHALTME=		LOTCXLIM=	UPTOXLIM=
LATEOX =		ABFLMTMP=		MOLRATID=		AIRFUEL =	FLMETEMP=
MOLFRAC =							

MOLECWT =	122.6	NBP	=	NFP	=	633.0	CRITTEMP=	CRITPRES=
DENSITY =	2340.	OENSTEMP=	293.1	SHPSTATE=S	=	ARHO	=	BRHO =
CRHO =		LOUPREND=		LULWREND=		LOVISPI.T=		LOVISTMP=
AVIS =		BVIS =		LVUPREND=		LVLWRB'D=		LQTHRCND=
LTHCNTMP=		ACON =		BCON =		LTCUPB'D=		LTCLOEND=
LQHTCPPT=		LQHTCPTM=		AHC =		BHC =		LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTEMP=		INTFTENS=		INTFTTMP=
SOLUBPNT=	7.300	SOLUBTMP=	293.1	A =	-51.33	B =	0.2000	AVP =
BVP =		CVP =		VFUPREND=		VPLWRB'D=		AVCP =
BVCP =		CVCP =		DVCP =		VHCUPB'D=		VHCLOBND=
HTEFUSION=		LHTVAPOR=		HTCOMBTN=		HTDECO'P=	-0.4100E+06	HTSOLUTN=
HTRACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=		BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	0.5000E-03	UPTOXLIM=
LATETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =		FLMETEMP=
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PDC   CHEMNAME = PENTADECANOL
      MOLEWT = 228.4      NBP = 573.0      CRITTEMP = 713.0      CRITPRES =
      DENSITY = 830.0      DENSTEMP = 293.2      SHPSATE=L      ARHO =      BRHO =      O.0000E+00(E
      CRHO = 0.0000E+00(E) LDUPRND= 333.0      (E) LDLWRND= 317.0      (E) LQVISP.T= 0.160DE-D2(E) LQVISTMP= 323.0      (E
      AVIS = -18.80      (E) BVIS = 4000.      (E) LVUPRND= 333.0      (E) LVLWRND= 323.0      (E) LQTHRCND= 0.1500      (E
      LTHCNTMP= 323.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 333.0      (E) LTCLOBND= 323.0      (E
      LQHTCPT= 2100.      (E) LOHTCPTM= 323.0      (E) AHC = 2100.      (E) BHC = 0.0000E+00(E) LHCUPBND= 333.0      (E
      LHCLOBND= 323.0      (E) SURFTENS= 0.250DE-01(E) SFTNTMP= 323.0      (E) INTFTENS= 0.350DE-01(E) INTFTTMP= 323.0      (E
      SOLUBNT=      SOLUBTMP=      A =      B =      AVP =      8.829
      BVP = 1518.      CVP = -176.2      VFUPRND= 623.2      VPLWRND= 453.2      AVCP =      0.3421E+05
      BVCP = 1222.      CVCP = -0.4124      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR=      HTCO*STN= -0.4290E+08(E) HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTIME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PDL  CHEMNAME = PHENYLOICHLOROARSINE. LIQUID      PATHCODE = A  O  X
MOLEWT = 222.9      NBP = 530.0      CRITPRES=
DENSITY = 1650.      DENSTEMP= 293.1      CRITTEMP=
CRHO = 0.0000E+00(E) LDUPRND= 303.1      ARHO = 1943.      (E) BRHO = -1.000 (E)
AVIS =              BVIS =              LQVISTMP=
LTHCNTMP= 293.1      ACON = 0.1512      (E) BRCND= 0.1512 (E)
LQHTCPPT= 1675.      (E) LQHTCPTM= 293.1      LTCLOBND= 283.1
LHCLOBND= 283.1      SURFTENS= 0.4464E-01      SFTNTMP= 291.1      LHCUPBND= 303.1
SOLUBPNT=              SOLUBTMP=              INTFTTMP=
BVP = 2672.      CVP = -0.1500      A = 8      AVP = 10.03
BVCP =              CVCP =              VPLWRND= 283.1      AVCP =
HTFUSION=              LHTVAPOR= 0.2300E+06      HTOECOMP=      VHCUPBND=
HTREACTN=              HTPOLYMR=              UPFLMLIM=      VHCDBNO=
TOXINHAL=              INHALCNC=              LOTOXLIM=      HTSOLUTN=
LATETOX =              ABFLMTMP=              AIRFUEL =      BURNRATE= 0.3006E-04
MOLFRAC =              MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PDT CHEMNAME = POTASSIUM D:CHLORO-S-TRIAZINETRIONE PATHCODE = SS

MOLECW = 236.1	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 960.0	DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRSND =	LOVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPRSND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACGN =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 9.900	SOLUBTMP = 298.1	A =	B =	AVP =
BVP =	CVP =	VFUPRSND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPEBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCDWSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MO_FRAC =				

0.5000E-02

0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PET    CHEMNAME = PENTAERYTHRITOL    PATHCODE = SS
MOLECWT = 136.2    NBP = 534.0
DENSITY = 1390.    SHPSTATE=S
CRHO =    LDLWRBND=
AVIS =    LVUPRBND=
LTHCNTMP=    BCON =
LQHTCPPT=    LQHTCPTM=
LHCLOBND=    SURFIENS=
SOLUBPNT= 7.200    SOLUBTMP= 298.1    A = -58.36
BVP =    CVP =    VFUPRBND=
BVCP =    CVCP =    DVCP =
HTFUSION=    LHTVAPOR=    HTCOMSTN= -0.2030E+08
HTREACTN=    HTPOLYMR=    LOFLMLIM=
TOXINHAL=    INHALCNC=    INHALTME=
LAFETOX =    ABFLMTMP=    MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 0.2200
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIN= 0.1500E-01(E)
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PFA  CHEMNAME = PARAFORMALDEHYDE      PATHCODE = RR  C
MOLEWT = 600.0      NBP = 445.0      (E) CRITTEMP=
DENSITY = 1460.      DENSTEMP= 288.2      SHPSTATE=S      ARHO =
CRHO =      LOUPRENO=      LDWRBND=      LOVISPT=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=
LQHTCPTM=      LOHTCPTM=      AHC =      BHC =
LHCLOBNO=      SURFTENS=      SFTNTMP=      INTFTENS=
SOLUBPNT=      SOLUBTMP=      A =      B =
BVP =      CVP =      VFUPRND=      VPLWRBND=
BVCP =      CVCP =      DVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTCOVSTN= -0.1554E+08      HTSOLUTN= -0.3496E+06
HTREACTN=      HTPOLYMR=      LOFLMLIM= 7.000      UPFLMLIM= 73.0D
TOXINHAL= 5.000      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =
  
```

CRITPRES=

BRHO =

LOVISTMP=

LQTHRCNO=

LTCLOBND=

LHCUPBND=

INTFTTMP=

AVP =

AVCP =

VHCLOBNO=

HTSOLUTN=

BURNRATE=

UPTOXLIM=

FLMETEMP=

```
PGA  CHEMNAME = PYROGALLIC ACID          PATHCODE = SS
```

MOLECWt =	126.0	NBP	=	582.0	NFP	=	404.0	CRITTEMP=	CRITPRES=
DENSITY =	1450.	DENSTEMP=	293.1	SHPSSTATE=S	ARHO	=		BRHO	=
CRHO	=	LDUPRBNQ=		LDLWPBND=	LQVISPNT=			LQVISTMP=	
AVIS	=	BVIS	=	LVUPRBNQ=	LVLWRBND=			LQTHRCND=	
LTHCNTMP=		ACON	=	BCON	=	LTCUPBND=		LTCLOBNO=	
LQHTCPT=		LQHTCPTM=		AHC	=	SHC	=	LHCUPBND=	
LHCLOBNO=		SURFTENS=		SFTNTEMP=		INTFTENS=		INTFTTMP=	
SOLUBPNT=	60.00	SOLUBTMP=	293.1	A	=	B	=	AVP	=
BVP	=	CVP	=	VFUPRBNQ=		VPLWRBND=		AVCP	=
BVCP	=	CVCP	=	DVCP	=	VHCLPBND=		VHCLOBND=	
HTFUSION=		LHTVAPOR=		HTCOMBNTN=	-0.2120E+08	HTDECOMP=		HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=		BURNRATE=	
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	0.5000E-03	UPTOXLIM=	0.5000E-02
LAFETOX	=	ABFLMTMP=		MOLRATIO=		AIRFUEL	=	FLMETEMP=	
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PGC  CHEMNAME = POLYPROPYLENE GLYCOL
MOLEWT =      NBP =      PATHCODE = A T U X Y
DENSITY = 1010.  DENSTEMP= 293.1  NFP = 233.0 (E) CRITTEMP=
CRHO = 0.0000E+00(E) LDUPRBD= 303.1  SHPSTATE=L  ARHO = 1303. (E) BRHO = -1.000 (E)
AVIS =      BVIS =      LVUPRBD=      LVLWRBD=D=      LOVISTMP=      LOVTHRCND= 0.1628 (E)
LTHCNTMP= 293.1  ACON = 0.1628 (E) BCON = 0.0000E+00(E) LTCUPBD= 303.1  LTCLOBND= 283.1
LOHTCPPT= 1884. (E) LOHTCPTM= 293.1  AHC = 1884. (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLGBND= 273.1  SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VFUPRBD=      VPLWRBD=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBD=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN= -0.3300E+08  HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03(E) UPTOXLIM= 0.5000E-02(E)
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELDS ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PGM  CHEMNAME = POLYPROPYLENE GLYCOL METHYL ETHER      PATHCODE = A P O
MOLEWT =          NBP =          CRITPRES=
DENSITY =          DENSTEMP=          SHPSTATE=          ARHO =          CRITTEMP=
CRHO = 0.0000E+00(E) LOUPRND= 303.0 (E) LDWRBND= 283.0 (E) LOVISPNT=          LQVISTMP=
AVIS =          BVIS =          LVUPRND=          LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC =          LHCUPBNO= 303.0 (E
LHCLOBNO= 283.0 (E) SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBNO=
HTFUSION=          LHTVAPOR=          HTCONSTN= -0.2870E+08(E) HTOECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLM=          UPFLWLM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLM=          UPTOXLM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PHG      CHEMNAME = PHOSGENE
MOLECWt = 98.92      NBP      = 281.4      NFP      = 147.0      CRITTEMP= 455.0      CRITPRES= 0.5670E+07
DENSITY = 1380.      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 2113.      BRHO      = -2.500
CRHO      = 0.0000E+00      LDUPRBN= 333.2      LDWRBN= 273.2      LQVISPNT=      LQVISTMP=
AVIS      =      BVIS      =      LVUPRBN=      LQTHRCND=
LTHCNTMP=      ACON      =      BCON      =      LTCLOBND=
LQHTCPPT= 1047.      LQHTCPTM= 293.2      AHC      = 1047.      BHC      = 0.0000E+00      LHCUPBND= 323.2
LHCLOBND= 253.2      SURFTENS= 0.2280E-01      SFTNTMP= 273.2      INTFTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      = 9.636
BVP      = 1303.      CVP      = 0.4004E-01      VEUPRBN= 373.2      VPLWRBND= 281.2      AVCP      = 0.2772E+05
BVCP      = 130.0      CVCP      = -0.9839E-01      DVCP      = 0.0000E+00      VHCUPBND= 250.0
HTFUSION= 0.5820E+05      LHTVAPOR= 0.2470E+06      HTCOMSTN=      HTSOLUTN=
HTREACTN= -0.2461E+07      HTPOLYMR=      LOFLMLIM=      BURNRATE=
TOXINHAL= 0.1000      INHALCNC= 1.000      INHALTME= 300.0      LOTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PHH CHEMNAME = PHENYLHYDRAZINE HYDROCHLORIDE PATHCODE = SS

MOLECWT = 144.6	NBP =	NFP = 516.0	CRITTEMP=	CRITPRES=
DENSITY = 1000. (E) DENTEMP= 293.1	SHPSSTATE=S	ARHO =	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LOVISPNT=	LOVISTMP=
AVIS =	BVIS =	LVUPR3ND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFLWRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPCR=	HTCOYSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

P11 CHEMNAME = PROPYLENEIMINE. INHIBITED

PATHCODE = A O P Q R S Z

MOLECW = 57.10	NBP = 339.0	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 802.0	DENSTEMP = 298.1	SHSTATE=L	ARHO =	BRHO =	-1.000
CRHO = 0.0000E+00	LDUPRND = 323.1	LDLWGBND =	LOVISPT =	LQV1STMP =	298.1
AVIS = -10.13 (E)	8VIS = 700.0 (E)	LVUPRND =	LVLWRBND =	LQTHRCND =	0.1512 (E)
LTHCNTMP = 293.1	ACON = 0.1512 (E)	BCON =	LTCUPBND =	LTCLOBND =	283.1
LQHTCPPT = 1738. (E)	LQHTCPTM = 293.1	AHC =	BHC =	LHCUPBND =	298.1
LHCLOBND = 283.1	SURFTENS = 0.2500E-01(E)	SFTNTMP =	INTFTENS =	INTFTTMP =	
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	10.30
BVP = 1796. (E)	CVP = -0.1500	VFUPRND =	PLWRBND =	AVCP =	-0.1580E+05(E)
BVCP = 414.0 (E)	CVCP = -0.2708 (E)	DVCP =	VHCUPBND =	VHCLOBND =	250.0
HTFUSION =	LHTVAPOR = 0.5820E+06	HTCOMSTN =	HTDECONP =	HTSOLUTN =	-0.3300E+06
HTREACTN =	HTPOLYMR = -0.1700E+07(E)	LOFLWLIM =	UPFLWLIM =	BURNRATE =	0.6847E-04
TOXINHAL = 2.000	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	0.5000E-04(E)
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PLB  CHEMNAME = POLYBUTENE          PATHCODE = A  T  U
MOLEWT = 1000.      NBP =          NFP =          CRITTEMP=
DENSITY = 810.0 (E) DENSTEMP= 288.2      SHPSRATE=L      ARHO =          CRITPRES=
CRHO = 0.0000E+00(E) LOUPRNO= 303.0 (E) LDLWPRNO= 283.0 (E) LOVISPI.T= 0.1015      (E) BRHO = 0.0000E+00(E)
AVIS =          BVIS =          LVUPRBN=          LVLWRB.D=          LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPB.D= 303.0 (E) LTCLOBND= 283.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC =          LHCUPEND= 303.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.0 (E) INTFTENS=          INTFTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          10.24
BVP = 2940.      CVP = -0.1599      VFUPRBN= 473.2      VPLWRB.D=          AVCP =          VHCLOBNO=
BVCP =          CVCP =          DVCPC =          VHCUPB.D=          HTSOLUTN= -0.2000E+05(E)
HTFUSION=          LHTVAPOR=          HTCOMSTN=          HTDECOMP=          BURNRATE=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIN=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PLP CHEMNAME = POLYPROPYLENE

PATHCODE = 11

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 900.0	OENSTEMP= 293.1	SMPSTATE=S	ARHO =	BRHO =
CRHO =	LOUPRND=	LOLRND=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRNO=	LQTHRCNO=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBNO=	SURFTENS=	SFTNIEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVCP =	VFUPRNO=	VPLWRB:D=	AVCP =
BVCP =	CVCP =	OVCP =	VHCUPBND=	VHCLOBND=
HTFUSIGN=	LHTVAPOR=	HTCOMSTN= -0.4560E+08(E)	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PLT  CHEMNAME = BETA-PROPIOLACTONE          PATHCODE = A  P  Q
MOLEWT = 72.10      NBP = 239.8      CRITTEMP=
DENSITY = 1150.      DENSTEMP= 293.1      SHPS:ATE=L      ARHO = 1443.      (E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E) LDUPRENO= 303.1      LOLWRSND= 273.1      LQVISPT= 0.8200E-03(E) LQVISTMP= 293.1
AVIS = -11.61 (E) BVIS = 1320.      (E) LVUPRSNO= 298.1      LVLWPB:D= 283.1      LQTHRCNO= 0.1512 (E)
LTHCNTMP= 293.1      ACGN = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBNO= 283.1
LOHTCPPT= 1758.      (E) LOHTCPTM= 293.1      AHC = 531.1 (E) BHC = 4.187 (E) LHCUPBND= 298.1
LHCL08NO= 278.1      SURFTENS= 0.2200E-01(E) SFTNTMP= 293.1      INTFTENS= 0.2500E-01(E) INTFTTMP= 293.1
SOLUBPNT= 68.00      SOLUBTMP= 298.1      A = 8      = 8.543 (E)
BVP = 1750.      (E) CVP = -0.1500 (E) VFUPRSNO= 333.1      VPLWRS:D= 303.1      AVCP = 0.1899E+05(E)
BVCP = 285.4 (E) CVCP = -0.1497 (E) OVCP = 0.2913E-04(E) VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION= LHTVAPOR= HTCOMSTN= -0.2400E+08(E) HTOECOMP= HTSOLUTN=
HTREACTN= HTPOLYMR= LCFLMLIM= 2.900      UPFLMLIM= BURNRATE=
TOXINHAL= 0.0000E+00      INHALCNC= INHALTME= LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAFETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PME      CHEMNAME = PROPYLENE GLYCOL METHYL ETHER      PATHCODE = A  P  Q
MOLEWT = 90.12      NBP = 394.0      NFP =      CRITTEMP= 554.0      CRITPRES=
DENSITY = 924.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1247.      SRHO = -1.100
CRHO = 0.0000E+00      LOUPRBNO= 333.2      LDLWPBND= 283.2      LOVISPT=  LOVISTMP=
AVIS =      8VIS =      LVUPRSNO=      LVLWRBND=      LQTHRCNO=
LTHCNTMP=      ACON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      BHC =      LHCUPBND=
LHCLOBNO=      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.284
BVP = 135.      CVP = -77.16      VFUPRSNO= 433.2      VPLWRBND= 293.2      AVCP = 0.3119E+05(E)
BVCP = 406.0      (E) CVCP = -0.2010      (E) OVCP = 0.360DE-04(E)      VHCUPBND= 600.0      (E)      VHCLOBND= 250.0      (E)
HTFUSION=      LHTVAPOR= 0.3860E+06(E)      HTCOMBSTN= -0.3170E+08(E)      HTDECOMP=      HTSOLUTN= -0.200DE+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.500DE-02      UPTOXLIM= 0.1500E-01
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PMN    CHEMNAME = N-PROPYL MERCAPTAN      PATHCODE = A   T   U   V   W
MOLEWT = 76.20      NBP      = 340.0      CRITTEMP= 530.0      (E) CRITPRES= 0.4600E+07(E)
DENSITY = 841.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 987.6      BRHO      = -0.5000
CRHO      = 0.0000E+00      LDUPRND= 303.1      LDLWRSD= 273.1      LQVISPAT= 0.4000E-03      LQVISTMP= 293.1
AVIS      = -10.21      (E) BVIS      = 700.0      (E) LVUPRSD= 303.1      LVLWRBD= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON      = 0.1512      (E) BCON      = 0.0000E+00(E)      LTCUPBD= 303.1      LTCLOBND= 283.1
LQHTCPPT= 1884.      LOHTCPTM= 288.1      AHC      = 677.6      (E) SHC      = 4.187      (E) LHCUPEND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2470E-01      SFTNIEMP= 293.1      INTFTENS= 0.1800E-01(E)      INTFTIMP= 293.1
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.820
BVP      = 1637.      CVP      = -0.1500      VFUPRSD= 343.1      VPLWRBD= 273.1      AVCP      = 0.9282E+05
BVCP      = 0.0000E+00      CVCP      = 0.0000E+00      DVCP      = 0.0000E+00      VHCUPBD= 400.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4160E+06      HTCO*STN= -0.3400E+08(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFL* LIM=      UPFL* LIM=      BURNRATE= 0.8517E-04
TOXINHAL=      INHALCNC=      INHALTIME=      LOTOX* LIM=      UPTOX* LIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
POP      CHEMNAME = POTASSIUM PEROXIDE      PATHCODE = RR
MOLECWt = 110.0      NBP      =      763.0
DENSITY = 1000.      (E) DENSTEMP= 293.1
CRHO      =
AVIS      =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT=
BVP      =
BVCP      =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX  =
MOLFRAC  =

NFP      =
SHPSSTATE=S
LDLWRBND=
LVUPRBND=
BCON     =
AHC      =
SFTNTMP=
A        =
VFUPRBND=
DVCP     =
HTCOM:3TN=
LOFL'LLIM=
INHALTME=
MOLRATIO=

CRITPRES=
BRHO     =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      =
AVCP     =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

CRITTEMP=
ARHO     =
LOVISPAT=
LVLWRBND=
LTCUPBND=
BHC      =
INTFTERS=
B        =
VPLWRBND=
VHCUPBND=
HTDECOMP=
LPFLMLIM=
LOTOXLIM=
AIRFUEL  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
POX  CHEMNAME = PROPYLENE OXIDE
      PATHCODE = A  P  Q  R  S
      MOLECW = 58.08  NBP = 307.5  NFP = 161.3  CRITTEMP = 482.3  CRITPRES = 0.4920E+07
      DENSITY = 830.0  DENSTEMP = 293.2  SHPSTATE=L  ARHO = 1210.  BRHO = -1.300
      CRHO = 0.0000E+00  LDUPREND = 313.2  LDLPBND = 233.2  LOVISPNT =  LOVISTMP =
      AVIS =  BVIS =  LVUPRNO =  LVLRSD =  LQTHRCND =
      LTHCNTMP =  ACON =  BCON =  LTCUPBND =  LTCLOBND =
      LQHTCPPT = 2160.  LOHTCPTM = 293.2  AHC = -539.9  BHC = 9.211  LHCUPBND = 353.2
      LHCLOBND = 253.2  SURFTENS = 0.2450E-01  SFTNTMP = 288.2  INTFTENS =  INTFTMP =
      SOLUBPNT = 40.50  SOLUBTMP = 293.2  A =  B =  AVP = 8.780
      BVP = 915.3  CVP = -64.86  VFUPRNO = 343.2  VPLWRSD = 223.2  AVCP = -7871.
      BVCP = 322.4  CVCP = -0.1951  DVCP = 0.4605E-04  VHCUPBND = 600.0  VHCLBND = 250.0
      HTFUSION =  LHTVAPOR = 0.4773E+06  HTCOMSTN = -0.3023E+08  HTDECOMP =  HTSOLUTN = -0.4500E+05(E
      HTREACTN =  HTPOLYMR =  LOFLMLIM = 2.100  UPFLMLIM = 38.50  BURNRATE = 0.5500E-04
      TOXINHAL = 100.0  INHALCNC =  INHALTME =  LOTOXLIM = 0.5000E-03  UPTOXLIM = 0.5000E-02
      LAETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =
      MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/16/48 PAGE276A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

PPA CHEMNAME = POLYPHOSPHORIC ACID

PATHCODE = A P O

MOLEWT =	NBP =	823.0	NFP =	311.0	CRITTEMP=	CRITPRES=
DENSITY =	OENSTEMP=	311.2	SHPS:ATE=L		LRHC =	BRHO = -0.9000
CRHO =	LDUPRBN=	373.2	LDLWRBN=	273.2	LOVISPT=	LQVISTMP=
AVIS =	BVIS =		LVUPRBN=		LVLWRBN=	LQTHRCNO=
LTHCNTMP=	ACON =		BCCN =		LTCUPBN=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	311.2	AHC =	325.7	BHC =	LHCUPBN= 473.2
LHCLOBND=	SURFTENS=		SFTNTMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=		A =		B =	AVP = 11.01
BVP =	CVP =	0.4004E-01	VFUPRBN=	773.2	VPLWRBN=	AVCP =
BVCP =	CVCP =		DVCP =		VHCUPBN=	VHCLOBND=
HTFUSION=	LHTVAPOR=		HTCOMBTN=		HTDECOWP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=		LOFLYLM=		UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM= 0.5000E-04
LATETOX =	ABFLNTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =						

PPG	CHENAME = PROPYLENE	GYCOL	PATHCODE = A				P	Q
	MOLECW = 76.10	NBP =	450.5	NFP =	213.0	(E)	CRITTEMP=	
	DENSITY = 1040.	OENSTEMP=	293.2	SHPSSTATE=L	ARHO =	1275.	CRITPRES=	
	CRHO = 0.0000E+00	LOUPFBND=	373.2	LOLWBND=	273.2	LOVISPAT=	BRHO = -0.8000	
	AVIS =	BVIS =		LVUPFBND=		LQVSRBD=	LQVISTMP=	
	LTHCNTMP=	ACON =		BCON =		LTCUPBND=	LQTHRCNO=	
	LQHTCPPT= 2483.	LOHTCPTM=	293.2	AHC =	764.4	BHC =	LTCLOBNO=	
	LHCLOBND= 253.2	SURFTENS=	0.360DE-01	SFTNTMP=	298.2	INTFTENS=	LHCUPBNO= 373.2	
	SOLUBPNT=	SOLUBTMP=		A =		B =	INTFTTMP=	
	BVP = 1587.	CVP =	-113.2	VFUPFBND=	473.2	VPLWRSD=	AVP = 9.576	
	BVCP = 311.1	CVCP =	-0.1675	OVCP =	0.3559E-04	VHCUPBND=	AVCP = 0.4400E+05	
	HTFUSION=	LHTVAPOR=	0.711BE+06	HTCONSTN=	-0.3398E+08	HTOECONP=	VHCLOBND= 250.0	
	HTREACTN=	HTPOLYMR=		LOFLMLIM=	2.600	LOPFLMLIM=	HTSOLUTN=	
	TOXINHAL=	INHALCNC=		INHALTIME=		LOTCLIM=	BURNRATE= 0.2500E-04	
	LARETOX =	ABFLMTMP=		MOLRATIO=		AIRFUEL =	UPTOXLIM= 0.5000E-03	
	MOLFRAC =						FLMETEMP= 0.5000E-02	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PPI  CHEMNAME = POLYMETHYLENE POLYPHENYL ISOCYANATE      PATHCODE = A  0  X  Y
MOLEWT = 400.0  (E) NBP = 473.0  NFP = CRITTEMP= CRITPRES=
DENSITY = 1200.  OENSTEMP= 293.1  SHPSTATE=L  ARHO = 1493.  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E) LOUPRBNO= 303.1  LOLWRBND= 273.1  LOVISPT= 0.7990  LOVISTMP= 283.1
AVIS = -50.05  8VIS = 0.1410E+05  LVUPRBND= 288.1  LVLWRBND= 273.1  LQTHRCND= 0.1512  (E)
LTHCNTMP= 293.1  ACON = 0.1512  (E) BCN = 0.0000E+00(E) LTCUPBND= 303.1  LTCLOBND= 283.1
LQHTCPPT= 1675.  (E) LQHTCPTM= 293.1  AHC = 1675.  (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBNO= 283.1  SURFTENS= SFTNTMP= INTFTENS= INTFTTMP=
SOLUBPNT= SOLUBTMP= A = B = AVP = 3.651
BVP = 1985.  CVP = -0.1500  VFUPRBND= 373.1  VPLWRBND= 283.1  AVCP =
BVCP = CVCP = DVCP = VHCUPBND= VHCLOBND=
HTFUSIGN= LHTVAPOR= HTCOMSTN= -0.3000E+08(E) HTDECOMP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
TOXINHAL= 0.2000E-01  INHALCNC= INHALTME= LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PPL  CHEMNAME = PROPYLENE          PATHCODE = A  B  C  D  E  F  G
MOLEWT = 42.08      NBP = 225.5      CRITPRES= 0.4620E+07
DENSITY = 609.0      DENSTEMP= 226.2      CRITTEMP= 365.0
CRHO = 0.0000E+00      LDUPRND= 233.2      ARHO = 878.8      BRHO = -1.200
AVIS = -10.78      8VIS = 445.0      LDWRPSND= 173.2      LOVISPT= 0.1500E-03      LOVISTMP= 226.2
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOEND=          LTHRCND=
LOHTCPPT= 2805.      LOHTCPTM= 293.2      AHC = 955.7      EHC = 6.280      LHCUPBND= 298.2
LHCLOBND= 213.2      SURFTENS= 0.1670E-01      SFTNTMP= 226.2      INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 8.945
BVP = 785.0      CVP = -26.16      VFUPRND= 243.2      VPLWRBND= 163.2      AVCP = 0.1164E+05
8VCP = 189.9      CVCP = -0.4815E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.4354E+06      HTCOMSTN= -0.4580E+08      HTSOLUTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 2.000      UPFLMLIM= 11.10      BURNRATE= 0.1333E-03
TOXINHAL= 4000.      INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP= 2518.      (E) MOLRATIO= 0.9167      (E) AIRFUEL = 14.68      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PPO  CHEMNAME = PHOSPHORUS OXYCHLORIDE          PATHCODE = A  0

MOLEWT = 153.3      NBP = 380.0      CRITTEMP= 605.0      CRITPRES=
DENSITY = 1675.     DENSTEMP= 293.2      ARHO = 2204.     BRHO = -1.800
CRHO = 0.0000E+00   LDUPRBND= 333.2      LDWRSND= 274.2      LOVISTMP=
AVIS =              BVIS =              LVLWRBND=         LQTHRCND=
LTHCNTMP=           ACON =              LTCUPBND=         LTCLOBND=
LOHTCPPT= 1600.     (E) LOHTCPTM= 293.0   (E) AHC = 1600.   (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0   (E)
LHCLOBND= 293.0   (E) SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =              B =              AVP = 9.853   (E)
BVP = 1842.         (E) CVP = 0.0000E+00(E) VFUPRBND= 380.0   (E) VPLWRBND= 330.0   (E) AVCP = 0.3700E+05(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 300.0   (E) VHCLOBND= 300.0   (E)
HTFUSION=          LHTVAPOR= 0.2261E+06   HTCOMSTN=          HTSOLUTN=
HTREACTN= -0.2223E+07   HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL= 0.5000      INHALCNC=          NHALTIME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PPP  CHEMNAME = PHOSPHORUS PENTASULFIDE          PATHCODE = RR  C
      MOLECWT = 222.3      NBP = 787.0      NFP = 548.0      CRITTEMP=
      DENSITY = 2030.      DENSTEMP= 293.2      SHPSTATE=S      ARHO =
      CRHO =              LDUPREND=          LVUPREND=          LOVISPT=
      AVIS =              BVIS =             ACON =             LVLWRBND=
      LTHCNTMP=           LQHTCPTM=          SURFTENS=          LTCUPBND=
      LHCLOBND=           SOLUBPNT=          CVP =              BHC =
      BVP =              CVCP =             LHTVAPOR=          INTFTIMP=
      BVCN =              HTPOLYMR=          INHALCNC=          AVP =
      HTFUSIGN= 0.1591E+06      LHTVAPOR= 0.4271E+06      HTSOLUTN= -0.5000E+05(E
      HTREACTN=              HTPOLYMR=          LOFLMLIM=          VPLWRBND=
      TOXINHAL= 10.00          INHALCNC= 20.00          INHALTME= 300.0      VHCUPBND=
      LATETOX =              ABFLMTMP=          MOLRATIO=          HTDECOMP=
      MOLFRAC =              ABFLMTMP=          MOLRATIO=          UPFLMLIN=
      LATEETOX =              ABFLMTMP=          MOLRATIO=          LOTOXLIM=
      MOLFRAC =              ABFLMTMP=          MOLRATIO=          AIRFUEL =
      LATEETOX =              ABFLMTMP=          MOLRATIO=          BURNRATE=
      MOLFRAC =              ABFLMTMP=          MOLRATIO=          UPTOXLIM=
      LATEETOX =              ABFLMTMP=          MOLRATIO=          FLMETEMP=
      MOLFRAC =              ABFLMTMP=          MOLRATIO=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PPT  CHEMNAME = PHOSPHORUS TRICHLORIDE      PATHCODE = A  0

MOLECWT = 137.3      NBP = 349.0      NFP = 161.0      CRITPRES= 559.0      CRITPRES=
DENSITY = 1575.      OENSTEMP= 293.2      SHPSTATE=L      DRHO = 2132.      BRHO = -1.900
CRHO = 0.0000E+00      LDUPREND= 323.2      LDLWSEND= 273.2      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRSND=      LVLWRBND=      LQTHRCNO=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 1600.      (E) LDHTCPTM= 293.0      (E) AHC = 1600.      (E) EHC =      LHCUPBND= 303.0      (E
LHCLOBNO= 283.0      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.806
BVP = 1664.      CVP = 0.4004E-01      VFUPRSNO= 373.2      VPLWRBND= 293.2      AVCP = 0.3700E+05(E
BVCP = 0.0000E+00(E)      CVCP = 0.0000E+00(E)      DVCP = 0.0000E+00(E)      VHCUPBND= 300.0      (E
HTFUSION=      LHTVAPOR= 0.2219E+06      HTOENSTN=      HTOECOMP=      HTSOLUTN=
HTREACTN= -0.2107E+07      HTPOLYMR=      LOFLWLIM=      LPFLWLIM=      BURNRATE=
TOXINHAL= 0.5000      INHALCNC=      INHALTME=      LOTDXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PPW  CHEMNAME = PHOSPHORUS, WHITE          PATHCODE = 11
MOLEWT = 123.9      NBP = 552.9      CRITTEMP = 317.3
DENSITY = 1820.      DENSTEMP = 293.2      CRITPRES =
CRHO =              LDUPRBND =              BRHO =
AVIS =              BVIS =              LOVISTMP =
LTHCNTMP =          ACON =              LOTHRCND =
LQHTCPPT =          LQHTCPTM =              LTCLOBND =
LHCLOBND =          SURFTENS =              LHCUPBND =
SOLUBPNT =          SOLUBTMP =              INTFTTMP =
BVP =               CVP =              AVP =
BVCP =              CVCP =              AVCP =
HTFUSION =          LHTVAPOR =              VHCLOBND =
HTREACTN =          HTPOLYMR =              HTSOLUTN =
TOXINHAL = 0.1800E-01  INHALCNC =              BURNRATE =
LATETOX =           ABFLMTMP =              LOTOXLIN = 0.500E-04(E) UPTOXLIM =
MOLFRAC =           MOLRATIO =              AIRFUEL =
FLMETEMP =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PPZ CHEMNAME = PIPERAZINE

PATHCODE = A P O

MOLEWT = 86.00	NBP = 421.0	NFP = 379.0	CRITTEMP =	CRITPRES =
DENSITY = 1100.	DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LOVISPR.T =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPTM =	LQHTCPTM =	AHC =	EHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 11.82
BVP = 2870.	CVP = -0.1500	VFUPRBND = 423.1	VPLWRBND = 293.1	AVCP =
BVCP =	CVCP =	OVCP =	VHCUPBND =	VHCLOBNO =
HTFUSION =	LHTVAPOR =	HTCOMBNTN = -0.3430E+08	HTOECOMP =	HTSOLUTN = -0.8120E+05
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LDTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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PRP      CHEMNAME = PROPANE
MOLEWT = 44.09      NBP = 231.1      NFP = 85.50      CRITTEMP= 176.5      CRITPRES= 0.4249E+07
DENSITY = 590.0      OENSTEMP= 223.2      SHPSTATE=L      ARHO = 835.5      BRHO = -1.100
CRHO = 0.0000E+00      LDUPRBD= 233.2      LDLWRBND= 153.2      LQVISPT= 0.2050E-03      LOVISTMP= 233.2
AVIS = -10.75      BVIS = 525.0      LVUPRBD= 233.2      LVLWRBND= 173.2      LOTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
LOHTCPPT= 2973.      LOHTCPTM= 293.2      AHC = -95.88      BHC = 10.47      LHCUPBND= 323.2
LHCLOBND= 223.2      SURFTENS= 0.1600E-01      SFTNTMP= 226.2      INTFTENS= 0.5000E-01(E)      INTFTTMP= 223.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 8.955
BVP = 813.2      CVP = -25.16      VFUPRBD= 247.2      VPLWRBND= 123.2      AVCP = 4271.
BVCP = 255.0      CVCP = -0.7536E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.4262E+06      HTCOMBNTN= -0.4601E+08      HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 2.100      UPFLMLIM= 3.500      BURNRATE= 0.1367E-03
TOXINHAL= 1000.      INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAFETOX =          ABFLMTMP= 2419.      (E) MOLRATIO= 0.8571      (E) AIRFUEL = 15.60      (E) FLMETEMP=
MOLFRAC =

```

CHEMNAME = PENTANE

W
V
U

PATHCODE = A T

CRITPRES= 0.337DE+07

$$BRHO = -0.9500$$

LOVISTMP= 293.2

LOTHPCNO= 0 1158

TCICBND-
C 396 C

INCUBEND- 323 2

INTSTTMD- 2030 (E)

AVD - 8 077

AVCO 10388

VHCL0BND- 350 0

WTCDLITN-

0 14338-

HYPOXIM-1™

F. INTERESTS

PATHCODE = A	O	T	U	V	W
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[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
PTC  CHEMNAME = POTASSIUM CYANIDE          PATHCODE = SS
MOLEWT = 65.12      NBP =          NFP = 907.7      CRITTEMP=
DENSITY = 1520.      DENSTEMP= 289.2      SHPSTATE=S      ARHO =
CRHO =              LDUPREND=              LDWRSND=      LQVISPNT=
AVIS =              BVIS =              LVUPRND=      LVLWRSND=
LTHCNTMP=          ACON =              BCON =          LTCUPBND=
LOHTCPPT=          LOHTCPTM=          AHC =          EHC =
LHCLOBND=          SURFTENS=          SFTNTEMP=      INTFTENS=
SOLUBPNT= 71.60      SOLUBTMP= 298.2      A =          B =
BVP =              CVP =              VFUPRND=      VPLWRSND=
BVCP =              CVCP =              DVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCOVSTN=      HTDECCND=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=      LOTOXLIM=
LAFETOX =          ABFLNTMP=          MOLRATIO=      0.5000E-04(E)
MOLFRAC =          MCLTEMP=          AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PTD CHEMNAME = POTASSIUM DICHROMATE

PATHCODE = SS

MOLEWT = 294.2	NBP =	NFP = 671.0	CRITTEMP=	CRITPRES=
DENSITY = 2676.	DENSTEMP= 298.2	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBD=	LDLWRBD=	LOVISPAI=	LOVISTMP=
AVIS =	BVIS =	LVUPRBD=	LVLWRBD=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBD=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	EHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A = -118.3	E = 0.4500	AVP =
BVP =	CVP =	VFUPRBD=	VPLWRBD=	AVCP =
RVCP =	CVCP =	DVCP =	VHCUPBD=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECCP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLM=	UPFLWLM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLM=	UPTOXLM= 0.5000E-04
LALETEX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PATHCODE	A	T	U	V	W
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[illegible]

PTH	CHEMNAME = POTASSIUM HYDROXIDE	PATHCODE = SS			
	MOLECW = 56.11	NBP =	NFP = 653.0	CRITTEMP =	
	DENSITY = 2040.	DENSTEMP =	SHPSSTATE = S	VRHO =	
	CRHO =	LDUPRBN =	LDLWRBN =	LOVISPT =	
	AVIS =	BVIS =	LVUPRBN =	LVLWRBN =	
	LTHCNTMP =	ACON =	BCON =	LTCUPBN =	
	LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	
	LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTTNP =	
	SOLUBPNT =	SOLUBTMP =	A = -168.0	B = 0.9700	
	BVP =	CVP =	VUPRBN =	VPLWRBN =	
	BVCP =	CVCP =	DVCP =	VHCUPBN =	
	HTFUSCN =	LHTVAPOR =	HTCOYSTN =	HTDECOMP =	
	HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	
	TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	
	LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	
	MOLFRAC =			FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PTL CHEMNAME = PETROLATUM
MOLECW = 862.0 (E) DENSTEMP = 351.2 NFP = 330.0 (E) CRITTEMP = CRITPRES =
CRHO = D.0000E+00(E) LDUPBND = 340.0 (E) LOLWRBND = 330.0 (E) LOVISPT = 0.860E-02(E) BRHO = 0.0000E+00(E)
AVIS = BVIS = LVUPRND = LVLWRBND = LQTHRCNO = 0.1500 (E)
LTHCNTMP = 330.0 (E) ACDN = 0.1500 (E) BCN = 0.0000E+00(E) LTCUPBND = 340.0 (E) LTCLOBND = 330.0 (E)
LOHTCPPT = 2000. (E) LOHTCPTM = 330.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND = 340.0 (E)
LHCLOBND = 330.0 (E) SURFTENS = 0.4500E-01(E) SFTNTMP = 330.0 (E) INTFTENS = 0.5000E-01(E) INTFTMP = 330.0 (E)
SOLUBTMP = A = B = AVP =
BVP = VUPRND = VPLWRBND = AVCP =
BVC = VC = VHCUPBND = VHCLOBND =
HTFUSCN = LHTVAPOR = 0.2261E+06(E) HTCOMBNTN = -0.4200E+08(E) HTDECOMP = HTSOLUTN =
HTREACTN = LHTPOLYMR = LOFLMLIM = UPFLMLIM = BURNRATE =
TOXINHAL = INHALTME = INHALTME = LOTOXLM = 0.5000E-02 UPTOXLM = 0.1500E-01
LAETOX = ABFLMTMP = MOLRATIO = AIRFUEL =
MOLFRAC =

```

HAZARDOUS ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/17/27 PAGE296A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PTM	CHEMNAME = POTASSIUM, METALLIC		PATHCODE = RR	
MOLEWT =	39.00	NBP =	1047.	NFP = 336.0
DENSITY =	860.0	DENSTEMP =	293.1	SHPSTATE = S
CRHO =		LDUPRBN =		LDLWRBN =
AVIS =		BVIS =		LVUPRBN =
LTHCNTMP =		ACON =		BCON =
LQTCPTM =		LQTCPTM =		AHC =
LHCLOBND =		SURFTENS =		SFTNTMP =
SOLUBPNT =		SOLUBTMP =		A =
BVP =		CVP =		VFUPRBN =
BVCP =		CVCP =		DVCP =
HTFUSIGN =		LHTVAPOR =		HTCOMSTN = -0.4657E+07
HTREACTN =		HTPOLYMR =		LOFLMLIM =
TOXINHAL =		INHALCNC =		INHALTME =
LAFETOX =		ABFLMTMP =		MOLRATIO =
MOLFRAC =				
				HTDECOMP =
				UPFLMLIM =
				LOTOXLIM =
				AIRFUEL =
				HTSOLUTN = -0.4891E+07
				BURNRATE =
				UPTOXLIM =
				FLMETEMP =
				CRITPRES =
				BRHO =
				LQVISTMP =
				LQTHRCND =
				LTCLOBND =
				LHCUPBND =
				INTFTTMP =
				AVP =
				AVCP =
				VHCLOBND =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PTN  CHEMNAME = PETROLEUM NAPHTHA      PATHCODE = A  T  U  V  W
MOLEWT =      NBP      = 370.4      NFP      =      CRITTEMP=
OENSITY = 740.0      OENSTEMP= 293.2      SHPSRATE=L      ARHO      = 1033.      BRHO      = -1.0000
CRHO      = 0.0000E+00      LOUPRBN= 303.2      LOLWRBND= 283.2      LOVISPNT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS      = -18.80 (E) 8VIS      = 4000.      (E) LVUPRBN= 313.0 (E) LVLWRBND= 283.0 (E) LQTHRCNO= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACCN      = 0.1500 (E) 8CON      = 0.0000E+00(E) LTCUPBND= 313.0 (E) LTCLOBND= 283.0 (E)
LQHTCPPT= 2000.      (E) LQHTCPTM= 293.0 (E) AHC      = 2000.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2100E-01(E) SFTNTEMP= 293.2      INTFTENS= 0.5000E-01(E) INTFTTMP= 293.2
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.641 (E)
8VP      = 2086.      (E) CVP      = 0.0000E+00(E) VFUFRBNO= 450.0 (E) VPLWRBND= 300.0 (E) AVCP      = 0.1990E+05(E)
8VCP      = 1073.      (E) CVCP      = -0.6010 (E) OVCP      = 0.0000E+00(E) VHCUPBND= 500.0 (E) VHCLOBNO= 300.0 (E)
HTFUSION=      LHTVAPOR= 0.2973E+06(E) HTCOMBNTN= -0.4240E+08(E) H7OECONP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.9000      UPFLMLIM= 6.000      8URNRATE= 0.6667E-04
TOXINHAL=      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      88FLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

LIQUID

Y

CRITPRES=		
BRHO	=	- 1.000
LQVISTMP=		
LOTHRCND=		0.1396
LTCLOBND=		288.1
LHCUPBND=		303.1
INTFTIMP=		
AVP	=	
AVCP	=	
VHCLOBND=		
HTSOLUTN=		
BURNRATE=		
UPTOXLIM=		0.500DE-04(E
FLMETEMP=		

0.500DE-04(E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PTS	CHEMNAME = POTASSIUM OXALATE	PATHCODE = SS	
	MOLECW = 184.2	NBP =	CRITPRES =
	DENSITY = 2130.	SHPS:ATE=S	BRHO =
	CRHO =	LDUPRND=	LOVISTMP=
	AVIS =	BVIS =	LOTHRCND=
	LTHCNTMP=	ACCN =	LTCLOBND=
	LOHTCPPT=	LOHTCPTM=	LHCUPBND=
	LHCLOBND=	SURFTENS=	INTFTTMP=
	SOLUBPNT= 35.70	SOLUBTMP= 293.1	AVP =
	BVP =	CVP =	AVCP =
	BVCP =	CVCP =	VHCLOBND=
	HTFUSION=	LHTVAPOR=	HTSOLUTN=
	HTREACTN=	HTPOLYMR=	BURNRATE=
	TOXINHAL=	INHALCNC=	UPTOXLIM= 0.5000E-03
	LAFETOX =	ABFLWTMP=	FLMETEMP=
	MOLFRAC =		
		CRITTEMP=	
		ARHO =	
		LOVISPT=	
		LVLWRND=	
		LTCUPBND=	
		BHC =	
		INTFTENS=	
		B = 0.5100	
		VPLWRND=	
		VHCUPBND=	
		HTDECOMP=	
		UPFLMLIM=	
		LOTOXLIM= 0.5000E-04	
		AIRFUEL =	
		MOLRATIO=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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PTT  CHEMNAME = PROPYLENE TETRAMER          PATHCODE = A  T  U
MOLEWT = 168.3      NBP = 458.0      (E) NFP = CRITTEMP=
DENSITY = 770.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO =
CRHO =              LOUPRBNO=              LOLWRENO=      LQVISTMP=
AVIS =              BVIS =              LVUPRBNO=      LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0      (E) LTCLOBND= 283.0      (E)
LQHTCPTP= 2000.      (E) LQHTCPTM= 293.0      (E) AHC = 2000.      (E) BMC = 0.0000E+00(E) LHCUPBND= 313.0      (E)
LHCLOBNO= 283.0      (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0      (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          -          9.630      (E)
BVP = 2150.      (E) CVP = 0.0000E+00(E) VFUPRBNO= 465.0      (E) VPLWRBND= 300.0      (E) AVCP =          =
BVCP =          =          CVCP =          OVCP =          =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR= 0.2450E+06(E) HTCOM'GTN= -0.4290E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL= 200.0      INHALCNC=          INHALTME=          LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/17/41 PAGE304 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAB	CHEMNAME = SODIUM ALKYL BENZENESULFONATES		PATHCODE = SS	
MOLEWT =	NBP =		NFP =	CRITTEMP=
DENSITY = 1000.	DENSTEMP= 293.2		SHPSRATE=L	BRHO =
CRHO =	LDUPREND=		LDLWPSND=	LQVISTMP=
AVIS =	BVIS =		LVUPRSND=	LQTHRCND=
LTHCNTMP=	ACON =		BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=		AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=		SFTNTMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=		A =	AVP =
BVP =	CVP =		VFUPRSND=	AVCP =
BVCP =	CVCP =		DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=		HTCOYSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=		LOFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=		INHALTME=	UPTOXLIM= 0.5000E-03
LATETOX =	ABFLMTMP=		MOLRATIO=	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAC CHEMNAME = SULFURIC ACID, SPENT PATHCODE = A P

MOLEWT =	NBP =	373.0	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	DENSTEMP=	293.2	SHPSSTATE=L	ARHO =	BRHO = -0.7000
CRHO =	LDUPRBND=	373.2	LDLWPSND=	273.2	LOVISTMP=
AVIS =	BVIS =		LVUPREND=		LOTHRCND=
LTHCNTMP=	ACCN =		BCON =		LTCLOBND=
LQHTCPPT=	LQHTCPTM=	2428.	AHC =	2428.	LHCUPBND=
LHCLOBND=	SURFTENS=	283.2	SFTNTEMP=		313.2
SOLUBPNT=	SOLUBTMP=		A =		INTFTTMP=
BVP =	CVP =		VFUPREND=		AVP =
BVCP =	CVCP =		DVCP =		AVCP =
HTFUSION=	LHTVAPOR=		HTCONSTN=		VHCLOBND=
HTREACTN=	HTPOLYMR=		LOFLW'LIM=		HTSOLUTN=
TOXINHAL=	INHALCNC=		INHALTIME=		-0.9713E+06(E
LARETOX =	ABFLMTMP=		MOLRATIO=		BURNRATE=
MOLFRAC =					UPTOXLIM=
					FLMETEMP=

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/17/43 PAGE306,A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAM		CHEMNAME = SODIUM AMIDE		PATHCODE = RR	
MOLEWT =	39.01	NBP =	673.0	NFP =	483.0
DENSITY =	1390.	DENSTEMP =	293.2	SHPSTATE =	S
CRHO =		LDUPRND =		LDLWRBND =	
AVIS =		BVIS =		LVUPRND =	
LTHCNTMP =		ACON =		BCON =	
LQHTCPT =		LQHTCPTM =		AHC =	
LHCLOBND =		SURFTENS =		SFTNTEMP =	
SOLUBPNT =		SOLUBTMP =		A =	
BVP =		CVP =		VFLUPRND =	
BVCP =		CVCP =		OVCP =	
HTFUSION =		LHTVAPCR =		HTCOYSTN =	
HTREACTN =	-0.6586E+07	HTPOLYMR =		LOFLWLIM =	
TOXINHAL =		INHALCNC =		INHALTME =	
LAFETOX =		ABFLMTMP =		MOLRATIO =	
MOLFRAC =					
				CRITTEVP =	
				ARHO =	
				LOVISPT =	
				LVLWRBND =	
				LTCUPBND =	
				BHC =	
				INTFTENS =	
				B =	
				VPLWRBND =	
				VHCUPBND =	
				HTDECOMP =	
				UPFLWLIM =	
				LOTOXLIM =	
				AIRFUEL =	
				CRITPRES =	
				BRHO =	
				LOVISTMP =	
				LOTHRCND =	
				LTCLOBND =	
				LHCUPBND =	
				INTFTTMP =	
				AVP =	
				AVCP =	
				VHCLOBND =	
				HTSOLUTN =	
				BURNRATE =	
				UPTOXLIM =	
				FLMETEMP =	

PROPERTY FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAR CHEMNAME = SODIUM ARSENITE PATHCODE = SS
 MOLEWT = 160.0 (E) NEP = NFP = 888.0 CRITPRES=
 DENSITY = 1870. DENSTEMP= 233.1 ARHO = BRHO =
 CRHO = LDUPRND= LDWRBND= LQVISTMP=
 AVIS = BVIS = LVUPRND= LVWRBND= LQTHRCND=
 LTHCNTMP= ACON = LTCUPBND= LTCLOBND=
 LQHTCPTM= LQHTCPTM= SHC = LHCUPBND=
 LHCLOBND= SURFTENS= SFTNTMP= INTFTTNP=
 SOLURPNT= SOLUBTMP= A = B = AVP =
 BVP = CVP = VUPRND= VPLWRBND= AVCP =
 BVCP = CVCP = DVCP = VHCUPBND= VHCLOBND=
 HTFUSION= LHTVAPOR= HTCONP= HTSOLUTN=
 HTREACTN= LCPOLYMR= LCPFLMLN= LPFLMLN=
 TOXINHAL= 0.7000E-01(E) INHALCNC= LOTOXLIN= 0.5000E-04 BURNRATE=
 LATETOX = ABFLNTNP= INHALTIME= UPTOXLIN= 0.5000E-03
 MOLFRAC = MCLRATIO= AIRFUEL = FLMETEMP=

HAZARDOUS ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/17/45 PAGE308/A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAS CHEMNAME = SODIUM ALKYL SULFATES

PATHCODE = SS

MOLEWT =	NBP =	CRITTEMP =	CRITPRES =
DENSITY =	QENSTEMP =	ARHO =	BRHO =
CRHO =	LDUPRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVLARBND =	LOTHRCND =
LTHCNTMP =	ACCN =	LTCUPBND =	LTCLOBND =
LQHTCPT =	LQHTCPTM =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	INTFTEMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VFLARBND =	AVCP =
BVCP =	CVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTDECCTP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLVLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

0.5000E-03

0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAZ CHEMNAME = SODIUM AZIDE

PATHCODE = SS

MOLECWT =	65.00	NBP =		CRITTEMP =		CRITPRES =	
DENSITY =	1850.	DENSTEMP =	293.1	SHPSSTATE = S		BRHO =	
CRHO =		LDUPREND =		LDLWRBND =		LOVISTMP =	
AVIS =		BVIS =		LVUPREND =		LOTHRCND =	
LTHCNIMP =		ACON =		LTCUPBND =		LTCLOBND =	
LOHTCPPT =		LOHTCPTM =		BHC =		LHCUPBND =	
LHCLOBND =		SURFTENS =		SFTNTEMP =		INTFTIMP =	
SOLUBPNT =	39.00	SOLUBTMP =	273.1	A =	-10.17	AVP =	
BVP =		CVP =		VFLWRBND =		AVCP =	
BVCP =		CVCP =		DVCP =		VHCLOBND =	
HTFUSION =		LHTVAPOR =		HTCOWBTN =		HTSOLUTN =	
HTREACTN =		HTPOLYMR =		LOFLMLIM =		BURNRATE =	
TOXINHAL =		INHALCNC =		INHALTME =		UPTOXLIM =	0.5000E-04(E
LATETOX =		ABFLTMP =		MOLRATIO =		FLMETEMP =	
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SBH	CHEMNAME = SODIUM BOROHYDRIDE	PATHCODE = RR C	
MOLEWT =	37.83	NBP =	CRITPRES =
DENSITY =	1074.	DENSTEMP = 293.2	BRHO =
CRHO =		LDUPRND =	LQVISTMP =
AVIS =		BVIS =	LOTHRCND =
LTHCNTMP =		ACON =	LTCLOBND =
LQHTCPPT =		LOHTCPTM =	LHCUPBND =
LHCLOBND =		SURFTENS =	INTFTTMP =
SOLUBPNT =		SOLUBTMP =	AVP =
BVP =		CVP =	AVCP =
BVCP =		CVCP =	VHCLOBND =
HTFUSION =		LHTVAPOR =	HTSOLUTN =
HTREACTN =	-0.8S83E+0S	HTPOLYMR =	BURNRATE =
TOXINHAL =		INHALCNC =	UPTOXLIM =
LATETOX =		ABFLMTMP =	FLMETEMP =
MOLFRAC =			
		NFP =	CRITTEMP =
		SHPSRATE = S	ARHO =
		LDLWPRND =	LQVISTMP =
		LVUPRND =	LVLWRBND =
		BCON =	LTCUPBND =
		AHC =	BHC =
		SFTNTMP =	INTFTENS =
		A = -302.8	B = 1.200
		VFUPRND =	VPLWRBND =
		DVCP =	VHCUPBND =
		HTCORSTN =	HTDECONP =
		LOFLVLIM =	UPFLMLIM =
		INHALTIME =	LOTOXLIM =
		MOLRATIO =	AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SBS CHEMNAME = SODIUM BISULFITE

PATHCODE = SS

MOLECW = 104.1	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1480.	DENSTEMP = 293.2	SHPS:ATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LOLWRBND =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCNO =
LTHCNTMP =	ACON =	BCCN =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 25.00	SOLUBTMP = 298.2	A =	B =	AVP =
BVP =	CVP =	VFLWRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBNO =
HTFUSION =	LHTVAPOR =	HTCO:BTN =	HTDECORP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.500DE-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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SBT  CHEMNAME = SORBITOL
      PATHCODE = A P Q
      MOLEWT = 182.2 NBP = 383.0 CRITTEMP=
      DENSITY = 1490. DENSTEMP= 288.2 SHPSRATE=L ARHO = 1778. CRITPRES=
      CRHO = 0.0000E+00 LDUPRND= 298.2 LDLWRND= 283.2 LQVISPNT= LQVISTMP=
      AVIS = BVIS = LVUPRND= LVLWRND= LQTHRCND=
      LTHCNTMP= ACCN = BCCN = LTCUPBND= LTCLOBND=
      LQHTCPT= 3000. (E) LOHTCPT= 390.0 (E) AHC = 3000. (E) BHC = 0.0000E+00(E) LHCUPBND= 410.0 (E)
      LHCLOBND= 390.0 (E) SURFTENS= SFTNTEMP= INTFTENS= INTFTTMP=
      SOLUBTMP= A = B =
      BVP = CVP = VFLWRND= VPLWRND=
      BVCP = DVCP = VHCUPBND= VHCLOBND=
      HTFUSIGN= HTCVAPOR= HTCOVSTN= -0.1570E+08(E) HTDECOMP= HTSOLUTN= -0.5000E+05(E)
      HTREACTN= LOFLVLIM= UPFLMLIM=
      TOXINHAL= INHALCNC= INHALTME= LOTOXLIM=
      LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SCH  CHEMNAME = SODIUM CHROMATE          PATHCODE = SS
MOLEWT = 162.0      NBP =                NFP =                CRITTEMP=
DENSITY = 2723.      DENSTEMP= 298.1      SHPSTATE=S          ARHO =
CRHO =              LDUPRBND=              LDLWRBND=          LOVISPNT=
AVIS =              BVIS =                LVUPRBND=          LQTHRCND=
LTHCNTMP=           ACON =                BCON =            LTCLOBND=
LQHTCPTM=           LQHTCPTM=             AHC =            LHCUPBND=
LHCLOBND=           SURFIENS=             SFTNTMP=          INTFTIMP=
SOLUBPNT= 78.50     SOLUBTMP= 293.1      A = -607.6         AVP =
BVP =               CVP =                 VFUPRSND=         AVCP =
BVCP =              CVCP =                 DVCP =            VHCLOBND=
MTFUSION=           LHTVAPOR=             HTCDWSTN=         HTSOLUTN= -0.5700E+05
MTREACTN=           HTPOLYMR=             LOFLWLM=          UPFLMLIN=
TOX INHAL= 0.1400E-01 INHALCNC=          INHALTME=         LOTOXLIM= 0.5000E-04
LAFETOX =           ABFLNTMP=             MOLRATIO=         AIRFUEL =
MOLFRAC =

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AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE, (U)
DEC 76 E ATKINSON

F/G 7/2

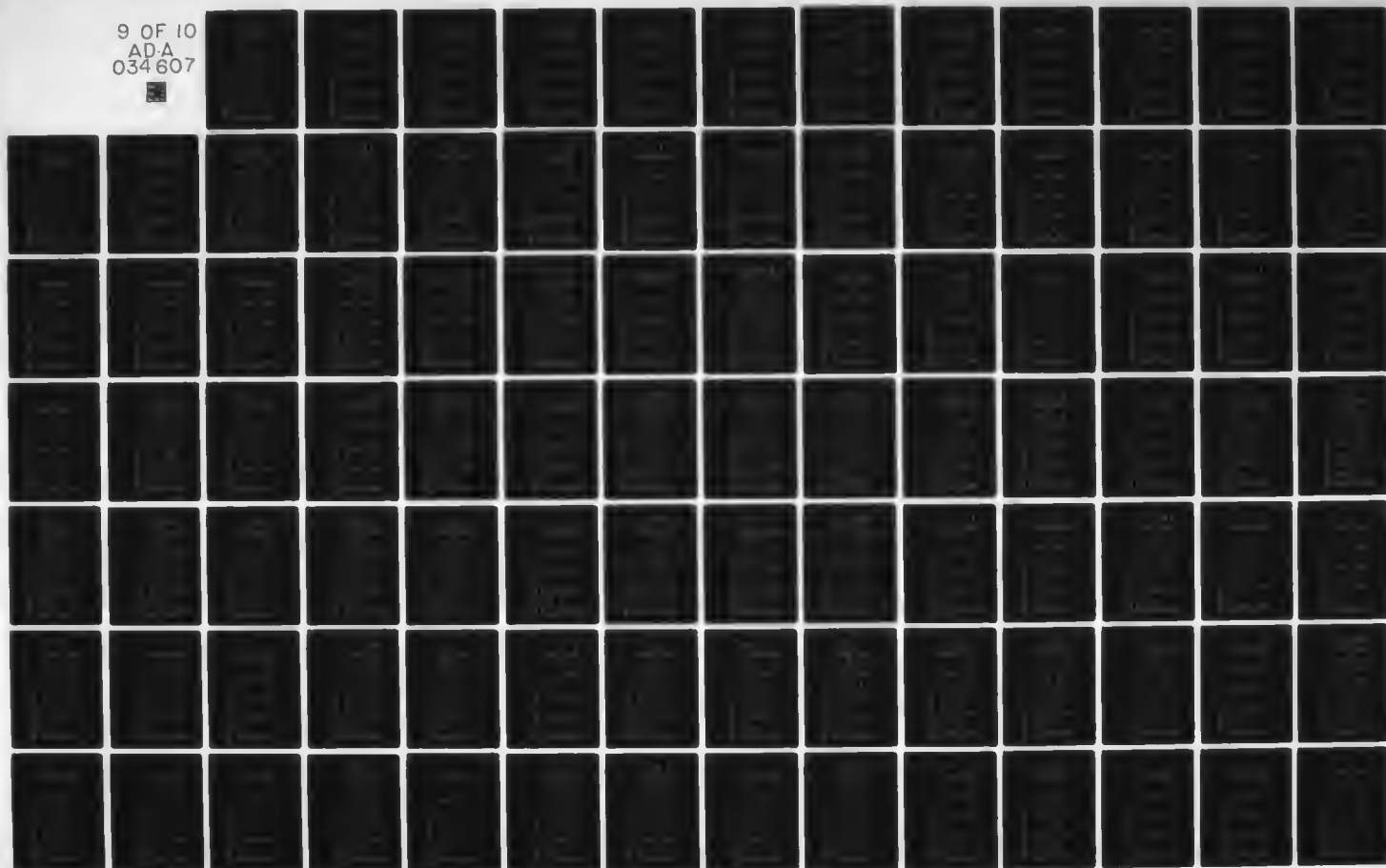
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

9 OF 10
ADA
034 607



PATHCODE = A O

MOLECWt =	135.0	NBP =	342.3	NFP =	CRITTEVP=	CRITPRES=
DENSITY =	1670.	DENSTEMP=	293.2	SHPSSTATE=L	ARHO =	BRHO =
CRHO =	0.0000E+00	LDUPRBD=	323.2	LDLWRND=	273.2	LOVISTMP=
AVIS =		BVIS =		LVUPRBD=		LOTHRCOND=
LTHCNTMP=		ACON =		BCON =		LTCLOBND=
LOHTCPPT=	963.0	LOHTCPTM=	293.2	AHC =	963.0	LHCUPBND=
LHCLOBNO=	283.2	SURFTENS=		SFTNTEMP=		INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =		AVP =
BVP =	1714.	CVP =	0.4004E-01	VFUPRSD=	373.2	AVCP =
BVCP =	164.1	CVCP =	-0.1340	OVCP =	0.0000E+00	VHCLOBND=
HTFUSION=		LHTVAPOR=	0.2072E+06	HTCOMBNTN=		HTSOLUTN=
HTREACTN=	-0.2060E+07	HTPOLYMR=		LOFLMLIN=		BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		UPTOXLIM=
LARETOX =		ABFLWTMP=		MOLRATIO=		FLMETEMP=
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SCN  CHEMNAME = SODIUM CYANIDE          PATHCODE = SS
MOLECWT = 49.01      NBP      =      NFP      = 837.0
DENSITY = 1600.      OENSTMP= 298.2      SHPSTATE=S
CRHO    =      LOUPRNO=      BVIS      =      LVUPRNO=
AVIS    =      ACON    =      LQHTCPTM=      SURFTENS=
LTHCNTMP=      LHCLOBND=      SOLUBPNT=      BVP      =
LQHTCPPT=      LHCLOBND=      SOLUBPNT=      BVP      =
LHCLOBND=      SOLUBPNT=      BVP      =      BVCP      =
HTFUSION=      HTREACTN=      TOXINHAL=      LAJETOX =
MOLFRAC =      CRITPRES=
BRHO    =      LOVISTMP=      LQTHRCND=      LTCLOBND=
LHCUPBND=      INTFTIMP=      AVP      =
AVCP    =      VHCLOBND=      HTSOLUTN=      BURNRATE=
UPFLMLIM=      LOTOXLM= 0.500DE-04(E)  UPTOXLM=
AIRFUEL =      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SCR    CHEMNAME = SODIUM DICHROMATE          PATHCODE = SS
MOLEWT = 262.0      NBP      =      CRITTEMP=
DENSITY = 2350.     DENSTEMP= 298.2      ARHO      =
CRHO      =      LDUPRBND=      LOVISPT=
AVIS      =      BVIS      =      LVLWRBND=
LTHCNTMP=      ACON      =      LTCUPBND=
LQHTCPPT=      LQHTCPTM=      EHC      =
LHCLOBND=      SURFTENS=      INTFTTNP=
SOLUBPNT=      SOLUBTMP=      A      = -92.47      AVP      =
BVP      =      CVP      =      VPLWRBND=      AVCP      =
BVCP      =      CVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      UPTOXLIM= 0.5DODE-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      LOTOXLIM= 0.5DODE-04
MOLFRAC =      CRITPRES=
BRHO      =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      =
AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5DODE-03
FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SCY CHEMNAME = SODIUM THIOCYANATE PATHCODE = SS

MOLEWT = 81.08	NBP =	NFP = 573.0	CRITTEMP =	CRITPRES =
DENSITY = 1000	(E) DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LOVISPN =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCCN =	LTCUPBND =	LTCLOBND =
LQHTCPT =	LQHTCPTM =	AHC =	LHCUPBND =	LHCLOBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTMP =	INTFTMP =
SOLUBPNT = 165.6	SOLUBTMP = 293.1	A = -1502.	B = 5.690	AVP =
EVAP =	CVP =	VUPRBND =	VPLWRBND =	AVCP =
EVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTDECOMP =	HTSOLUTN = 0.8120E+05
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SDA  CHEMNAME = SODIUM ARSENATE                PATHCODE = SS
MOLECWT = 312.0      NBP      = 453.0      NFP      = 330.0      CRITTEMP=
DENSITY = 1870.      DENSITY= 293.1      SHPS:ATE=S      ARHO      =
CRHO      =          LDUPRND=          LOUWRSND=          LOVISAT=          LOVISTMP=
AVIS      =          BVIS      =          LVUPRND=          LVLWRB'D=          LOTHRCND=
LTHCNTMP=          ACON      =          BCON      =          LTCUPB'D=          LTCLOBND=
LOHTCPPT=          LOHTCPTM=          AHC      =          BHC      =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFNTTEMP=          INTFTENS=          INTFTTMP=
SOLUBPNT= 159.7      SOLUTEMP= 288.1      A      =          B      =          AVP      =
BVP      =          CVP      =          VFUPRND=          VPLWRB'D=          AVCP      =
BVCP      =          CVCP      =          DVCP      =          VHCUPB'D=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOL:STN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLN'LIM=          UPFLMLIM=          BURNRATE=
TOXINHAL= 0.3600E-01      INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

0.5000E-04(E

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/18/01 PAGE320 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDB CHEMNAME = SODIUM BORATE

PATHCODE = SS

MOLECWT = 201.3	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2367.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LOUPRENO=	LOLWPSND=	LOVISPAT=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LOHTCPTM=	AHC =	BHC =	LHCUPBNO=
LHCLOBNO=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 2.720	SOLUBTMP= 293.1	A =	B =	AVP =
EVP =	CVP =	VFUPRSND=	VPLWRBND=	AVCP =
EVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBNO=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN= -0.2100E+06
HTREACTN=	HTPOLYMR=	LOFLWLM=	UPFLWLM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SDC  CHENNAME = SODIUM CHLORATE                PATHCODE = SS
MOLECWT = 106.5      NBP =                      NFP = S21.0
DENSITY = 2490.      OENSTEMP= 288.2            SHPSIATE=S
CRHO =              LDUPREND=                   LDLWRBNO=
AVIS =              BVIS =                      LVUPRSND=
LTHCNTMP=           ACON =                      BCON =
LQHTCPPT=           LQHTCPTM=                   AHC =
LHCLOBND=           SURFTENS=                   SFTNTEMP=
SOLUBPNT=           SOLUBTMP=                   A = -221.5
BVP =              CVP =                      VFUPRSND=
BVCP =              CVCP =                      QVCP =
HTFUSION= 0.2052E+06 LHTVAPOR=                 HTCOMSTN=
HTREACTN=           HTPOLYMR=                   LOFLWLIM=
TOXINHAL=           INHALCNC=                   INHALTME=
LAJETOX =          ABFLMTMP=                   MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPEND=
INTFTTMP=
AVP = 1.100
AVCP =
VHCLOBNO=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDF CHEMNAME = SODIUM FLUORIDE PATHCODE = SS

MOLEWT = 41.99	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2790.	DENSTEMP = 293.2	SHPS:ATE=S	ARHO =	BRHO =
CRHC =	LOUPRBND =	LDLWRBND =	LQVISPAT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	SHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A = -1.803	B = 0.2000E-01	AVP =
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPEBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCO:STN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SDH  CHEMNAME = SODIUM HYDRIDE          PATHCODE = RR

MOLEWT = 24.00      NBP =
DENSITY =          DENSTEMP=
CRHO =            LDUPRBD=
AVIS =           BVIS =
LTHCNTMP=         ACON =
LQHTCPPT=         LQHTCPTM=
LHCLOBND=         SURFTENS=
SOLUBPNT=         SOLUBTMP=
BVP =            CVP =
BVCP =           CVCP =
HTFUSION=         LHTVAPOR=
HTREACTN= -5443.   HTPOLYMR=
TOXINHAL=         INHALCNC=
LATETOX =         ABFLMTMP=
MOLFRAC =

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

CRITTEMP=
ARHO =
LOVISPNT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SDS  CHEMNAME = SODIUM SULFIDE          PATHCODE = SS
      MOLEWT = 78.04      NBP =          NFP =          CRITTEMP=
      DENSITY = 1856.      OENSTEMP= 293.2      SHPSRATE=S      ARHO =          CRITPRES=
      CRHO =          LOUPRBND=          LDLRBND=          LOVISPT=          BRHO =          LOVISTMP=
      AVIS =          BVIS =          LVUPRBND=          LVLWRB'D=          LOTHRCND=          LOTHRCND=
      LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=          LTCLOBND=
      LQHTCPPT=          LQHTCPTM=          AHC =          BHC =          LHCUPBND=          LHCUPBND=
      LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=          INTFTTMP=
      SOLUBPNT=          SOLUBTMP=          A = -88.74      B =          AVP =          AVP =
      BVP =          CVP =          VFUPRBND=          VPLWRB'D=          AVCP =          AVCP =
      BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=          VHCLOBND=
      HTFUSION=          LHTVAPOR=          HTCOMBTN=          HTDECOMP=          HTSOLUTN=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM=          LOFLMLIM=          UPFLMLIM=          UPFLMLIM=
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          AIRFUEL =          FLMETEMP=
      MOLFRAC =
*****
      O.5000E-04      0.5000E-04      0.5000E-03

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDT CHEMNAME = SODIUM DICHLORO-S-TRIAZINETRIONE PATHCODE = SS

MOLEWT = 220.0	NBP =	NFP =	CRITPRES =
DENSITY = 960.0	DENSTEMP = 293.1	SHPSTATE = S	BRHO =
CRHO =	LDUPRBN =	LDLWRBN =	LOVISTMP =
AVIS =	BVIS =	LVUPRBN =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTENS =	INTFTTMP =
SOLUBPNT = 33.00	SOLUBTMP = 298.1	A =	AVP =
BVP =	CVP =	VFUPRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCDWSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/18/08 PAGE327 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SFA CHENAME = SULFURIC ACID

SMTHCODE = A P O

MOLEWT = 98.08	NBP = 613 C	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1840.	DENSTEMP = 273 2	SMPSSTATE = 1	ARMO = 2123	BRMO = -1 0000
CRHO = 0 0000E+00	LOUPEBND = 323 2	LDIA BND = 273.2	LOVISTMP =	LOVISTMP =
AVIS =	BVIS =	LVLABND =	LOTRECBND =	LOTRECBND =
LTHCNTMP =	ACCN =	BUCN =	LTCLEBND =	LTCLEBND =
LOHTCPPT = 1398.	LOHTCPTV = 293 2	AMC = 1153.	LHCLPBND = 333 2	LHCLPBND =
LHCLGBND = 273 2	SURFTENS =	SFINTEMP =	INTFTMP =	INTFTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =	AVP =
BVP =	CVP =	VLCPEBND =	AVCP =	AVCP =
BVCP =	CVCP =	DVCP =	LHCLGBND =	LHCLGBND =
HTFUSION =	LHTVAPOR =	HTCLGBND =	HTSOLUN = -0 9713E+06	HTSOLUN =
HTREACTN =	HTPOLYMR =	LCPLVIM =	BURNRATE =	BURNRATE =
TOXINHAL = 0.2285	INHALCRC = 2 285	IMMATIVE = 300.0	UPTOXLIN =	UPTOXLIN =
LATETOX =	ABFLVTMP =	MOLRATIO =	FLMETEMP =	FLMETEMP =
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/18/10 PAGE328 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SFC	CHEMNAME = SODIUM FERROCYANIDE	PATHCODE = SS	
MOLECW	= 484.0	NFP	=
DENSITY	= 1458.	SHPSSTATE	= S
CRHO	=	LWLWRBND	=
AVIS	=	LVUPRBND	=
LTHCNTMP	=	BCON	=
LQHTCPPT	=	AHC	=
LHCLBNDO	=	SFTNTMP	=
SOLUBPNT	=	A	= -98.06
BVP	=	VFLWRBND	=
BVCP	=	DVCP	=
HTFUSIGN	=	HTCONSTN	=
HTREACTN	=	LOFLMLIM	=
TOXINHAL	=	INHALTME	=
LATETOX	=	ABFLNTMP	=
MOLFRAC	=		
		CRITPRES	=
		BRHO	=
		LOVISTMP	=
		LOTHRCNO	=
		LTCLOBND	=
		LHCUPBND	=
		INTFTTMP	=
		AVP	= 0.4000
		AVCP	=
		VHCLOBND	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	= 0.5000E-02
		FLMETEMP	=
		CRITTEMP	=
		ARHO	=
		LOVISPNT	=
		LVLWRBND	=
		LTCUPBND	=
		BHC	=
		INTFTEMP	=
		B	= 0.4000
		VPLWRBND	=
		VHCUPBND	=
		HTDECONP	=
		CPFLMLIM	=
		LOTOXLIM	= 0.5000E-03
		AIRFUEL	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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SFD  CHEMNAME = SULFUR DIOXIDE
MOLECWT = 64.06      NBP = 263.2      NFP = 197.7      CRITTEMP= 430.0      CRITPRES= 0.787DE+07
DENSITY = 1450.      DENSTEMP= 263.2      SHPSSTATE=L      ARHO = 2086.      8RHO = -2.400
CRHO = 0.0000E+00    LDUPRBND= 303.2      LDWRBND= 223.2      LQVISPAT=      LQVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACCN =      8CCN =      LTCUPBND=      LTCLOBND=
LQHTCPT= 1415.      LOHTCPTM= 293.2      AHC = 187.7      EHC = 4.187      LHCUPBND= 373.2
LHCLOBND= 273.2      SURTENS=      SFTNTEMP=      INTFTT=      INTFTTMP=
SOLUBPNT= 10.00     SOLUBTMP= 293.2      A =      E =      AVP = 9.407
BVP = 999.9          CVP =      VFUPRBND= 293.2      VPLWRBND= 195.2      AVCP = 0.2692E+05
BVCP = 49.82         CVCP =      -0.2093E-01      DVCP = 0.0000E+00      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3969E+06      HTDECOM=      HTSOLUTN= -0.2190E+06
HTREACTN=      HTPOLYMR=      LOFLTLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 5.000      INHALCNC= 20.00      INHALTME= 300.0      LOTCXLM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SFL CHEMNAME = SULFOLANE

PATHCODE = A P O

MOLECW = 120.2	NBP = 553.0	NFP = 299.0	CRITTEMP =	CRITPRES =
DENSITY = 1260.	DENSTEMP = 303.2	SHPSSTATE = L	ARHO = 1379.	BRHO = -0.4000
CRHO = 0.0000E+00	LOUPREND = 333.2	LDLWESND = 300.2	LQVISP.T =	LQVISTMP =
AVIS =	BVIS =	LVUPRESND =	LVLWRB.D =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 1465.	LQHTCPTM = 293.2	AHC = 737.3	EHC = 2.512	LHCUPBND = 473.2
LHCLOBND = 273.2	SURFTENS =	SFTNTEMP =	INTFTERS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 10.52
BVP = 3063.	CVP = 0.4004E-01	VFUPPSND = 523.2	VPLWRB.D = 373.2	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPB.D =	VHCLOBND =
HTFUSION = 0.1130E+05	LHTVAPOR =	HTCONSTN = -0.2200E+08(E)	HTDECONP =	HTSOLUTN = -0.5000E+05(E)
HTREACTN =	HTPOLYMR =	LOFLV.LIM =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIN = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SFM      CHEMNAME = SULFUR MONOCHLORIDE      PATHCODE = A  0
MOLECWt = 135.0      NBP      = 411.0      NFP      = 193.0      CRITPRES=
DENSITY = 1680.      DENSTEMP= 293.2      SHPSSTATE=L      BRHO      = -1.600
CRHO      = 0.0000E+00      LOUPREND= 323.2      LDLRBND= 273.2      LOVISIMP=
AVIS      =      BVIS      =      LVUPRBN=      LVLWRB'D=      LOTHRCNO=
LTHCNTMP=      ACON      =      BCON      =      LTCUPB'D=      LTCLOBND=
LOHTCPPT= 921.1      LOHTCPTM= 293.2      AHC      = 921.1      EHC      = 0.0000E+00      LHCUPBND= 343.2
LHCLOB'D= 273.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTIMP=
SOLUBPAT=      SOLUBTMP=      A      =      B      =      AVP      = 9.580
BVP      = 1880.      CVP      = 0.4004E-01      VFUPRBN= 413.2      VPLWRB'D= 273.2      AVCP      = 0.5012E+05
BVCP      = 103.8      CVCP      = -0.9211E-01      DVCP      = 0.0000E+00      VHCUPB'D= 575.0      VHCLOBND= 250.0
HTFUSIGN=      LHTVAPOR= 0.2671E+06      HTCONSTN=      HTDECONP=      HTSOLUTN=
HTREACTN= -0.1168E+07      HTPOLYMR=      LOFLWLIM=      LPFLWLIM=      BURNRATE=
TOXINHAL= 1.000      INHALCNC=      INHALTME=      LOTCXLM=      UPTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/18/17 PAGE332 A
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SFR CHEMNAME = SODIUM SILICOFLUORIDE PATHCODE = 11

MOLEWT = 188.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2680.	DENSTEMP= 293.1	SHSTATE=S	ARHO =	BRHO =
CRHO =	LOUPRBND=	LOLRBNO=	LOVISPNT=	LOVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRB'D=	LQTHRCND=
LTHCNTMP=	ACON =	SCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BMC =	LHCUPBNO=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTES=	INTFTTMP=
SOLUBPNT= 0.6400	SOLUBTMP= 293.1	A = -2.878	B = 0.1200E-01	AVP =
BVP =	CVP =	VFUPRBNO=	VPLWRB'D=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPB'D=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECO'P=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	LPFLMLIM=	BURNRATE=
TOXINHAL= 0.3000	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-04	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SHC  CHEMNAME = SODIUM HYPOCHLORITE          PATHCODE = A  P
MOLEWT = 74.44      NBP =
DENSITY = 1060.      DENSTEMP= 293.2      SHPSATE=L
CRHO = 0.0000E+00(E) LDUPRBD= 298.0 (E) LDLWRBND= 278.0 (E) LDVISPFI=
AVIS =
LTHCNTMP=
LQHTCPTP= 3800. (E) LQHTCPTM= 293.0 (E) AHC = 3800. (E) BHC = 0.0000E+00(E) LHCUPBND= 298.0 (E)
LHCLOBND= 278.0 (E) SURFTENS=
SOLUBPNT=
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

CRITPRES=
(E) BRHO = 0.0000E+00(E)
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND= 298.0 (E)
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN= -0.2000E+06(E)
BURNRATE=
UPTOXLIM=
FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SHD  CHEMNAME = SODIUM HYDROXIDE          PATHCODE = SS
MOLECW = 40.00  NBP = 591.0
DENSITY = 2130.  TENSTEMP = 293.2  SHPSRATE=S
CRHO =  LDUPRND=
AVIS =  BVIS =
LTHCNTMP=  ACON =
LOHTCPPT=  LOHTCPTM=
LHCLOBND=  SURFTENS=
SOLUBPNT=  SOLUBTMP=
BVP =  CVP =
BVCP =  CVCP =
HTFUSION=  LHTVAPOR=
HTREACTN=  HTPOLYMR=
TOXINHAL=  INHALCNC=
LATETOX =  ABFLMTMP=
MOLFRAC =

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP = 2.560
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=
CRITTEMP=
ARHO =
LOVISPAT=
LVLWRSD=
LTCUPBND=
EHC =
INTFTENS=
B = -657.3
VPLWRSD=
VHCUPSD=
HTDECOMP=
IPFLMLIM=
LOTOXLIM=
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SHS  CHEMNAME = SODIUM HYDROSULFIDE SOLUTION      PATHCODE = A  P
MOLECW =      NBP = 373.0 (E) NFP = 290.0 (E) CRITTEMP =      CRITPRES =
DENSITY = 1300.  DENSTEMP = 288.1  SHPSTATE=L  ARHO = 1593.  (E) BRHO = -1.000 (E)
CRHO = 0.000DE+00(E) LOUPREND = 303.1  LDLWROND = 293.1  LQVISPT =      LQVISTMP =
AVIS =      BVIS =      LVUPROND =      LVLRBND =      LQTHRCNO =
LTHCNTMP =      ACON =      BCON =      LTCUPB'D =      LTCLOBND =
LQHTCPPT =      LQHTCPTM =      AHC =      EHC =      LHCUPBND =
LHCLOBNO =      SURFTENS =      SFTNTMP =      INTFTENS =      INTFTIMP =
SOLUBPNT =      SOLUBTMP =      A =      B =      AVP =
BVP =      CVP =      VFUPROND =      VPLWRB'D =      AVCP =
BVCP =      CVCP =      DVCP =      VHCLP BND =      VHCLBND =
HTFUSION =      LHTVAPOR =      HTCCO'GTN =      HTSOLUTN =
HTREACTN =      HTPOLYMR =      LOFLWLM =      UPFLWLM =      BURNRATE =
TOXINHAL =      INHALCNC =      INHALTME =      LOTOXLIM =      UPTOXLIM = 0.5000E-02
LATETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
MOLFRAC =

```

***** PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS *****

SLA	CHEMNAME = SALICYLIC ACID		PATHCODE = II		
MOLEWT =	138.1	NBP =		430.0	CRITPRES =
DENSITY =	1440.	DENSTEMP =	293.1	SHPS:ATE=S	BRHO =
CRHO =		LDUPRBND =		LDLWRSND =	LOVISIMP =
AVIS =		BVIS =		LVUPPSNO =	LQTHRCNO =
LTHCNTMP =		ACCN =		BCON =	LTCLOBND =
LQHTCPPT =		LQHTCPTM =		AHC =	LHCUPBNO =
LHCLOBND =		SURFTENS =		SFTN:EMP =	INTFTIMP =
SOLUBPNT =	0.2000	SOLUBTMP =	298.1	A =	AVP =
BVP =		CVP =		VFUPRSND =	AVCP =
BVCP =		CVCP =		OVCP =	VHCLOBND =
HTFUSIGN =		LHTVAPOR =		HTCO:STN =	HTSOLUTN =
HTREACTN =		HTPOLYMR =		LOFL:MLIM =	BURNRATE =
TOXINHAL =		INHALCNC =		INHALTIME =	UPTOXLIM =
LAFETOX =		ABFLMTMP =		MOLRATIO =	FLMETEMP =
MOLFRAC =					
					0.5000E-03
					0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SLD  CHEMNAME = SELENIUM DIOXIDE          PATHCODE = SS
MOLECW = 111.0      NBP = 583.0      NFP =          CRITEMP=
DENSITY = 3950.      DENSTEMP= 293.1      SHPSTATE=S      ARHO =
CRHO =          LDUPRBN=          BVIS =          LVUPRBN=          DLWRBN=          LOVISPT=
AVIS =          ACON =          LQHTCPTM=          SURFTENS=          LTCUPBN=          LQTHRCND=
LTHCNTMP=          LHCLOBND=          SOLUBPNT= 263.0      SOLUBTMP= 295.1      A = -651.8      B = 3.100      AVP = 5.244
BVP = 694.0      CVP = -0.1500      VUPRBN= 454.1      VPLWRBN= 343.1      AVCP =
BVCP =          CVCP =          LHTVAPOR=          HTCOMSTN=          HTSOLUTN= 0.2800E+05
HTFUSION=          HTPOLYMR=          INHALCNC= 0.6000E-01      INHALTME= 1800.      BURNRATE=
HTREACTN=          INHALCNC= 0.6000E-01      ABFLMTMP=          MOLRATIO=          UPTOXLIM=
TOXINHAL= 0.4000E-01      ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
LATETOX =          MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SML CHEMNAME = SODIUM METHYLATE			PATHCODE = SS	
MOLEWT =	54.00	NBP =	NFP =	CRITTEMP=
DENSITY =	1000.	(E) DENSTEMP=	293.1	SHPSRATE=S
CRHO =		LDUPRBND=	LDLWRBND=	LOVISPT=
AVIS =		BVIS =	LVUPPSND=	LVLWRBND=
LTHCNTMP=		ACON =	BCON =	LTCUPBND=
LQHTCPPT=		LQHTCPTM=	AHC =	BHC =
LHCLOBND=		SURFTENS=	SFTNTMP=	INTFTENS=
SOLUBPNT=		SOLUBTMP=	A =	B =
BVP =		CVP =	VFUPRBND=	VPLWRBND=
BVCP =		CVCP =	DVCP =	VHCUPBND=
HTFUSION=		LHTVAPOR=	HTCOMSTN=	HTDECOMP=
HTREACTN=		HTPOLYMR=	LOFLMLIM=	UPFLMLIM=
TOXINHAL=		INHALCNC=	INHALTME=	LOTOXIM=
LATEOX =		ABFLMTMP=	MOLRATIO=	AIRFUEL =
MOLFRAC =				
				CRITPRES=
				BRHO =
				LQVISTMP=
				LQTHRCND=
				LTCLOBND=
				LHCUPBND=
				INTFTTMP=
				AVP =
				AVCP =
				VHCLOBND=
				HTSOLUTN=
				BURNRATE=
				UPTOXLIM=
				FLMETEMP=

PATHCODE = SS

MOLECWT =	69.00	NBP =	593.0	(E) NFP =	544.0	CRITTEMP=	CRITPRES=
DENSITY =	2170.	DENSTEMP=	293.1	SHPSSTATE=S		ARHO =	BRHO =
CRHO =		LDUPREND=		LDLWRBND=		LOVISPLT=	LOVISTMP=
AVIS =		BVIS =		LVUPRBND=		LVLWRBND=	LOTHRCND=
LTHCNTMP=		ACON =		BCON =		LTCUPBND=	LTCLOBND=
LQHTCPT=		LQHTCPTM=		AHC =		BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTENS=		INTFTENS=	INTFTTMP=
SOLUBPNT=	83.00	SOLUBTMP=	293.1	A =	-1.613	B =	0.2900
8VP =		CVP =		VFUPREND=		VPLWRBND=	AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND=	VHCLOBND=
HTFUSIGN=		LHTVAPOR=		HTCOMBNTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	0.5000E-04
LATETOX =		A8FLMTMP=		MOLRATIO=		AIRFUEL =	0.5000E-03
MOLFRAC =							FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SOX	CHEMNAME = SODIUM OXALATE		PATHCODE = II SS	
MOLECW	= 134.0	NBP	=	CRITTEMP=
DENSITY	= 2270.	DENSTEMP	= 293.1	SHPSSTATE=S
CRHO	=	LDUPRBND	=	LOVISPT=
AVIS	=	BVIS	=	LVUPRBND=
LTHCNTMP	=	ACON	=	LTCUPBND=
LOHTCPPT	=	LOHTCPTM	=	BHC
LHCLOBND	=	SURFTENS	=	INTFTEMP=
SOLUBPNT	= 3.460	SOLUBTMP	= 293.1	A
BVP	=	CVP	=	VFLWRBND=
BVCP	=	CVCP	=	VHCUPBND=
HTFUSION	=	LHTVAPOR	=	HTSOLUTN=
HTREACTN	=	HTPOLYMR	=	BURNRATE=
TOXINHAL	=	INHALCNC	=	UPTOXLIM= 0.5000E-03
LATETOX	=	ABFLMTMP	=	FLMETEMP=
MOLFRAC	=	MOLRATIO	=	
				0.3700E-01
				AVP
				AVCP
				0.5000E-04
				UPFLMLIN=
				LOTOXLIM=
				AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SPP CHEMNAME = SODIUM PHOSPHATE PATHCODE = SS

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2150.	(E) DENSTEMP= 298.1	SHPSSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBN=	LDLWRBN=	LOVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBN=	LVLWRBN=	LQTHRCND=
LTHCNTMP=	ACON =	SCON =	LTCUPBN=	LTCLOBND=
LQHTCPPT=	LOHTCPTM=	AHC =	BHC =	LHCUPBN=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBNT= 50.00	(E) SOLUBTMP= 298.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBN=	VPLWRBN=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBN=	VHCLOBND=
HTFUSIGN=	LHTVAPOR=	HTCOYSTN=	HTDECONP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLM=	UPTOXLM=
LAFETCX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PATHCODE = 11

MOLECW =	282.0	(E) NBP	=		NFP	=	343.0	CRITTEMP=	CRITPRES=
DENSITY =	860.0	DENSTEMP=	293.1	SHPS,ATE=S	ARHO	=		BRHO	=
CRHO	=	LDUPRBN=		LDLW,END=	LQVISPNT=			LQVISIMP=	
AVIS	=	BVIS	=	LVUPRBN=	LVLRB, D=			LQTHRCND=	
LTHCNTMP=		ACCN	=	BCON	LTCUPB, D=			LTCLOBND=	
LQHTCPPT=		LQHTCPTM=		AHC	BHC	=		LHCUPBND=	
LHCLOBND=		SURFTENS=		SFTNTEMP=	INTFTENS=			INTFTIMP=	
SOLUBPNT=		SOLUBTMP=		A	B	=		AVP	=
BVP	=	CVP	=	VFUPRBN=	VPLWRB, D=			AVCP	=
BVCP	=	CVCP	=	DVCP	VHCUPB, D=			VHCLOBND=	
HTFUSION=		LHTVAPOR=		HTCO,GTN=	HTDECOMP=	-0.4023E+08		HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIM=			BURNRATE=	
TOXINHAL=		INHALCNC=		INHALTME=	LOTOXLIM=	0.1500E-01(E)		UPTOXLIM=	
LARETOX	=	ABFLMTMP=		MOLRATIO=	AIRFUEL	=		FLMETEMP=	
MOLFPAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SRS CHEMNAME = SUCROSE

PATHCODE = SS

MOLEWT = 342.3	NBP =	NFP = 446.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 1590.	DENSTEMP = 293.1	SHPS:STATE=S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LOVISPA.T =	LOVISIMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFIENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 204.0	SOLUBTMP = 293.1	A =	-162.4	B = 1.250
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.2230E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SSC	CHEMNAME = SODIUM SILICATE		PATHCODE = A P		
MOLECW =	NBP =	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 1100.	(E) DENSITY = 293.2	SHPSSTATE=L	ARHO = 1300.	(E) BRHO = 0.0000E+00(E	
CRHO = 0.0000E+00(E)	LDUPRBND = 303.0	(E) LDLWRBND = 278.0	(E) LOVISPT =	LQVISTMP =	
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =	
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =	
LQHTCPPT = 2931.	(E) LQHTCPTM = 298.2	AHC = 2931.	(E) BHC =	LHCUPBND = 303.2	
LHCLOBND = 283.2	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =	
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTOECOMP =	HTSOLUTN = -0.4000E+05(E	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02	
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SSF CHEMNAME = SODIUM SULFITE

PATHCODE = SS

MOLEWT = 126.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2633.	DENSTEMP = 288.2	SHPSRATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LOVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCCN =	LTCUPBND =	LTCLOBND =
LQHTCPP1 =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A = -183.4	B = 0.7200	AVP =
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBNTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
STC      CHEMNAME = SILICON TETRACHLORIDE      PATHCODE = A  0
MOLEWT = 169.9      NBP      = 330.8
DENSITY = 1480.      OENSTEMP= 293.1      SHPSTATE=L
CRHO    = 0.0000E+00      LDUPREND= 313.1      LDLRBND= 273.1      LQVISPT= 0.510DE-03      288.1
AVIS    = -9.581      BVIS    = 575.0      LVUPRND= 313.1      LVLWRBND= 258.1      LQTHRCND= 0.1047      (E
LTHCNTMP= 293.1      ACON    = 0.1047      (E) BCON    = 0.0000E+00(E)      LTCUPBND= 303.1      LTCLOBND= 283.1
LOHTCPPT= 795.5      LOHTCPTM= 293.1      AHC      = 795.5      BHC      = 0.0000E+00      LHCUPBND= 313.1
LHCLOBND= 273.1      SURFTENS= 0.1960E-01      SFTNTEMP= 293.1      INTFTENS= 0.0000E+00      INTFTTMP=
SOLUBTMP= 0.0000E+00      A      = 0.0000E+00      B      = 0.0000E+00      AVP      = 9.704
BVP      = 1554.      CVP      = -0.1500      VFUPRNO= 333.1      VPLWRBND= 263.1      AVCP      =
BVCP      = 0.0000E+00      CVCP      = 0.0000E+00      VHCUPBND= 0.0000E+00      VHCLOBND=
HTFUSION= 0.1730E+06      LHTVAPOR= 0.1730E+06      HTC..VSTN= 0.0000E+00      HTSOLUTN= -0.1730E+07
HTREACTN= 0.0000E+00      HTPOLYMR= 0.0000E+00      LOFLMLIM= 0.0000E+00      BURNRATE=
TOXINHAL= 0.0000E+00      INHALCNC= 0.0000E+00      INHALTME= 0.0000E+00      UPTOXLIN= 0.5000E-04(E
LATETOX = 0.0000E+00      ABFLWTMP= 0.0000E+00      MOLRATIO= 0.0000E+00      FLMETIMP=
MOLFRAC = 0.0000E+00

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

STO	CHEMNAME = SELENIUM TRIOXIDE	PATHCODE = RR	
MOLECF =	126.9	NBP =	391.0
DENSITY =	3600.	DENSTEMP =	293.1
CFHO =		LDUPRBND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.3500E-01	INHALCNC =	0.5300E-01
LAETOX =		INHALTME =	1800.
MOLFRAC =		ABFLMTMP =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	
		LQVISPT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTDECCMP =	
		UPFIMLIN =	
		LOTOXLIM =	
		AIRFUEL =	
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

STY CHEMNAME = STYRENE

PATHCODE = A T U Z

MOLECW = 104.2	NBP = 418.4	NFP = 242.6	CRITTEMP = 646.0	CRITPRES = 0.4000E+07
DENSITY = 906.0	DENSTEMP = 293.2	SHPSSTATE=L	ARHO = 1170.	BRHO = -0.9000
CRHO = 0.0000E+00	LDUPRNO = 373.2	LOLWRBND = 273.2	LOVISINT = 0.7500E-03	LQVISTMP = 293.2
AVIS = -11.32	BVIS = 1210.	LVUPRNO = 373.2	LVLWRBND = 273.2	LQTHRCNO = 0.1465
LTHCNTMP = 293.2	ACCN = 0.2488	BCON = -0.3489E-03	LTCUPBND = 323.2	LTCLOBND = 263.2
LQHTCPPT = 1742.	LQHTCPTM = 293.2	AHC = 882.5	EHC = 2.931	LHCUPBNO = 323.2
LHCLOBNO = 253.2	SURFTENS = 0.3214E-01	SFTNTMP = 292.2	INTFTENS = 0.3548E-01	INTFTTMP = 292.2
SOLUBPNT = 0.3000	SOLUBTMP = 293.2	A =	B =	AVP = 9.404
BVP = 1650.	CVP = -43.16	VFUPRNO = 418.2	VPLWRBND = 273.2	AVCP = -0.2370E+05
BVCP = 573.4	CVCP = -0.2626	DVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLUBNO = 250.0
HTFUSION = 0.1059E+06	LHTVAPOR = 0.3634E+06	HTCOMSTN =	HTOECCMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR = -0.6448E+06	LOFLVLIM = 1.100	UPFLMLIM = 6.100	BURNRATE = 0.8667E-04
TOXINHAL = 100.0	INHALCNC = 100.0	INHALTME = 1800.	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAFETOX =	A8FLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PATHCODE = 11

MOLECW	275.7	NBP	NFP	CRITTEMP	CRITPRES
DENSITY	6100.	DENSTEMP	SHPSATE=5	ARHO	BRHO
CRHO		LDUPREND=	LDLWRSND=	LQVISANT=	LQVISTMP=
AVIS		BVIS	LVUPRSDN=	LVLRBND=	LQTHRCND=
LTHCNTMP=		ACON	BCON	LTCUPBND=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=	AHC	BHC	LHCUPBND=
LHCLOBND=		SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	0.3300E-01	SOLUSTMP=	A	B	AVP
BVP		CVP	VFUPRSDN=	VPLWRBND=	AVCP
BVCP		CVCP	DVCP	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=	HTCOSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	0.8000E-03	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAETOX		ABFLMTMP=	MOLRATIO=	AIRFUEL	FLMETEMP=
MOLFRAC					

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SVF	CHEMNAME = SILVER FLUORIDE	PATHCODE = II SS	
MOLEWT =	126.9	NBP =	1432.
DENSITY =	5820.	OENSTEMP =	293.1
CRHO =		LOUPREND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LOHTCPPT =		LOHTCPTM =	
LHCLOBNO =		SURFTENS =	
SOLUBPNT =	177.0	SOLUBTMP =	293.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSIGN =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.18DOE-02	INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			

CRITPRES =		CRITTEMP =	
BRHO =		ARHO =	
LQVISTMP =		LQVISPTI =	
LQTHRCND =		LVLWRBND =	
LTCLOBND =		LTCUPBND =	
LHCUPEND =		BHC =	
INTFTTMP =		INTFTENS =	
AVP =	3.8DO	B =	-937.0
AVCP =		VPLWRBND =	
VHCLOBND =		VHCUPBND =	
HTSOLUTN =		HTDECCNP =	
BURNRATE =		UPFLMLIM =	
UPTOXLIM =		LOTOXLIM =	
FLMETEMP =		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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SVI  CHEMNAME = SILVER IODATE          PATHCODE = II
MOLEWT = 282.1      NBP =              NFP =              CRITTEMP=
DENSITY = 5530.     DENSTEMP= 293.1    SHPSTATE=S        ARHC =
CRHO =             LDUPRBND=           LDLWRBND=         LOVISPT=
AVIS =             BVIS =              LVUPRBND=         LVLWRBND=
LTHCNTMP=          ACON =              BCON =           LTCUPBND=
LOHTCPPT=          LOHTCPTM=           AHC =             BHC =
LHCLOBND=          SURFTENS=           SFTNTMP=          INTFTTMS=
SOLUBPNT= 0.4100E-02 SOLUBTMP= 293.1  A = -0.3694E-01    B = 0.1400E-03
BVP =              CVP =              VFUPRBND=         VPLWRBND=
BVCP =             CVCP =              DVCN =           VHCUPBND=
HTFUSION=          LHTVAPOR=           HTCOMSTN=         HTSOLUTN=
HTREACTN=          HTPOLYMR=           LOFLNLIM=         UPFLMLIN=
TOXINHAL= 0.8000E-03 INHALCNC=         INHALTME=         LOTOXLIM=
LATETOX =          ABFLMTMP=           MOLRATIO=         AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELDS VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SVN CHEMNAME = SILVER NITRATE

PATHCODE = SS

MOLEWT = 169.9	NBP =	NFP = 485.0	CRITTEMP=	CRITPRES=
DENSITY = 4350.	DENSTEMP= 292.2	SHPSRATE=S	ARHO =	BRHO =
CRHO =	LOUPREND=	LDLWRBND=	LQVISPR.T=	LQVISTMP=
AVIS =	BVIS =	LVUPREND=	LVLWRBND=	LOTHRCNO=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPT=	LQHTCPTN=	AHC =	BHC =	LHCUPBND=
LHCLOBNO=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A = -1190.	E = 4.800	AVP =
BVP =	CVP =	VFUPREND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBNTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIV=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-04	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

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***** PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI. SYSTEM OF UNITS *****

SVO	CHEMNAME = SILVER OXIDE	PATHCODE = II	
MOLECW	= 231.8	NBP	=
DENSITY	= 7140.	DENSTMP	= 293.1
CRHO	=	LDUPRND	=
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LOHTCPPT	=	LOHTCPTM	=
LHCLOBND	=	SURFTENS	=
SOLUBPNT	=	SOLUBTMP	=
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSIGN	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	= 0.100DE-D2	INHALCNC	=
LATETOX	=	ABFLMTMP	=
MOLFRAC	=		
		CRITTEMP	=
		4RHO	=
		LOVISPT	=
		LVLWRBLO	=
		LTCUPBLO	=
		BHC	=
		INTFTENS	=
		B	=
		VPLWRBLO	=
		VHCUPBLO	=
		HTDECOMP	=
		UPFLMLIM	=
		LOTOXLIM	= 0.500DE-03
		AIRFUEL	=
		CRITPRES	=
		BRHO	=
		LOVISTMP	=
		LOTHRCND	=
		LTCLOBND	=
		LHCUPBND	=
		INTFTTMP	=
		AVP	=
		AVCP	=
		VHCLOBND	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	= 0.500DE-02
		FLMETEMP	=

SVS	CHEMNAME = SILVER SULFATE	PATHCODE = II SS					
	MOLECWt = 311.8	NBP =	NFP =	CRITTEMP=	CRITPRES=		
	DENSITY = 5450.	DENSTEMP=	SHPSRATE=S	ARHO =	BRHO =		
	CRHO =	LDPREND=	LDLWRBND=	LQVISPAT=	LQVISTMP=		
	AVIS =	BVIS =	LVUPRBND=	VVLWRBND=	LQTHRCND=		
	LTHCNTMP=	ACON =	BCON =	LTCUPEMD=	LTCLOBND=		
	LQHTCPPT=	LQHTCPTW=	AHC =	BHC =	LHCUPBND=		
	LHCLOBND=	SURFTENS=	SPTNTEMP=	INTFIENS=	INTFTTMP=		
	SOLUBPNT= 0.7400	SOLUBTMP=	A = -1.724	B =	AVP =	0.8400E-02	
	BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =		
	BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=		
	HTFUSION=	LMTVAPOR=	HTCOMSTN=	HTDECOGP=	HTSOLUTN=		
	HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=		
	TOXINHAL= 0.7000E-03	INHLCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=		
	LAFETOX =	ABFLWTMP=	MOLRATIO=	AIRFUEL =	FLMWETEMP=		
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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SXX  CHEMNAME = SULFUR(LIQUID)
      PATHCODE = A  X  Y
MOLEWT = 256.5  NBP = 717.8  NFP = 394.9  CRITTEMP=
DENSITY = 1800.  OENSTEMP= 393.2  SHPSTATE=L  ARHO = 2119.  CRITPRES=
CRHO = 0.0000E+00  LDUPRNO= 433.2  LDLWRBNO= 393.2  LOVISPNT= 0.1094E-01  LQVISTMP= 396.2  BRHO = -0.8000
AVIS = -12.15  BVIS = 3020.  LVUPRND= 409.2  LVLWRB.D= 393.2  LQTHRCNO=  LQVISTMP= 396.2
LTHCNTMP=  ACON =  LTCUPB.D=  LTCLOBND=
LQHTCPPT= 963.0  LQHTCPTM= 373.2  AHC = 696.2  EHC = 0.6699  LHCUPBNO= 663.2
LHCLOBND= 373.2  SURFTENS= 0.6080E-01  SFTNTEMP= 393.2  INTFTENS= 0.5000E-01(E)  INTFTIMP= 400.0  (E
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 10.17
BVP = 3664.  CVP = 0.4004E-01  VFUPRND= 673.2  VPLWRB.D= 393.2  AVCP = 0.2260E+05(E
BVCP = 0.0000E+00(E)  CVCP = 0.0000E+00(E)  OVCP = 0.0000E+00(E)  VHCUPB.D= 400.0  (E)  VHCLOBND= 300.0  (E
HTFUSION= 0.4396E+05(E)  LHTVAPOR= 0.2889E+06  HTCO*STN= -0.1103E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFL*LM=  UPFL*LM=  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTIME=  LOTOXLM= 0.5000E-03  UPTOXLM= 0.5000E-02
LATETOX =  ABFLNTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELDS VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

TAL CHEMNAME = TRIETHYLALUMINUM PATHCODE = A 0 2

MOLEWT = 114.2	NBP = 459.8	NFP = 227.0	CRITTEMP = 678.0	CRITPRES = 0.1360E+08
DENSITY = 836.0	OENSTEMP = 293.1	SHPSTATE=L	ARHO = 1032.	BRHO = -0.6700
CRHG = 0.0000E+00	LOUPRBND = 363.1	LOLRBND = 283.1	LOVISPT = 0 2830E-02	LOVISTMP = 293.1
AVIS = -11.38	8VIS = 1616.	LVUPRBND = 363.1	LVLARBND = 283.1	LOTHRCNO = 0.1628 (E)
LTHCNTMP = 293.1	ACON = 0.1628	(E) 8CON = 0.0000E+00(E)	LTCUPBND = 303.1	LTCLOBNO = 283.1
LOHTCPT = 2093.	LOHTCPTM = 298.1	AHC = 845.1	(E) BHC = 4.187	(E) LHCUPBNO = 303.1
LHCLOBND = 273.1	SURFTENS = 0.2610E-01	SFTINTEMP = 301.1	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 11.13
BVP = 2369.	CVP = -73.15	VFUPRBND = 453.1	VPLARBND = 353.1	AVCP =
8VCP =	CVCP =	OVCP =	VHCUPBND =	VHCLOBNO =
HTFUSION =	LHTVAPOR = 0.5020E+06	HTCONVSTN = -0.4268E+08	HTOECONP =	HTSOLUTN = -0.4640E+07
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNPATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TAP	CHEMNAME = P-TOLUENESULFONIC ACIO	PATHCODE = SS	
MOLECW	= 172.2	NBP	=
DENSITY	= 1450.	DENSTEMP	= 298.1
CRHO	=	LDUPREND	=
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LQHTCPPT	=	LQHTCPTM	=
LHCLOBNO	=	SURFTENS	=
SOLUBPNT	= 270.0	SOLUBTMP	= 293.1
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	=	INHALCNC	=
LATETOX	=	ABFLWTMP	=
MOLFRAC	=		
		NFP	= 377.5
		SHPSSTATE	= S
		LDLWRBND	=
		LVUPPBND	=
		BCON	=
		AHC	=
		SFTNTMP	=
		A	=
		VUPRBND	=
		DVCP	=
		HTCO::STN	=
		LOFLMLIM	=
		INHALTME	=
		MOLRATIO	=
		(E) CRITTEMP	=
		ARHO	=
		LQVISTMP	=
		LVLRBND	=
		LTCUPBND	=
		BHC	=
		INTFTEMP	=
		B	=
		VPLWRBND	=
		VHCUPBND	=
		HTOECOMP	=
		UPFLMLIN	=
		LOTOXLIM	= 0.5000E-03
		AIRFUEL	=
		CRITPRES	=
		BRHO	=
		LQVISTMP	=
		LQTHRCNO	=
		LTCLOBND	=
		LHCUPENO	=
		AVP	=
		AVCP	=
		VHCLOBND	=
		HTSOLUTN	= -0.1200E+06
		BURNRATE	=
		UPTOXLIM	= 0.5000E-02
		FLMETEMP	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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TBT  CHEMNAME = TETRABUTYL TITANATE      PATHCODE = A  O  T  U  X  Y
MOLEWT = 340.0      NBP = 585.0      CRITTEMP = 218.0      CRITPRES =
DENSITY = 1000.      DENSTEMP = 293.1      SHPSTATE=L      ARHO = 1000.      (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LOUPRENO = 298.1      LDLWFBND = 273.1      LQVISPNT = 0.9000E-01      LQVISTMP = 293.1
AVIS = -19.11      8VIS = 4895.      LVUPRSND = 303.1      LVLWRB:D = 283.1      LQTHRCND = 0.9304E-01(E)
LTHCNTMP = 293.1      ACCN = 0.9304E-01(E) BCON = 0.0000E+00(E) LTCUPBND = 293.1      LTCLOBND = 283.1
LQHTCPPT = 1465.      (E) LQHTCPTM = 293.1      AHC = 1465.      (E) BHC = 0.0000E+00(E) LHCUPBND = 293.1
LHCLOBNO = 283.1      SURFTENS = SFTNTMP = INTFTENS = INTFTTMP =
SOLUBPNT = 283.1      -DLUBTMP = A = E = AVP =
BVP = CVP = VFUPRSND = VPLWRB:D = AVCP =
BVCP = CVCP = OVCP = VHCUPBND = VHCLOBND =
HTFUSICN = LHTVAPOR = 0.3300E+06      HTCOMBNTN = -0.3400E+08(E) HTOECOMP = HTSOLUTN =
HTREACTN = HTPOLYMR = LOFLMLIN = 2.000      UPFLMLIN = 12.00      BURNRATE = 0.5678E-04
TOXINHAL = INHALCNC = INHALTNE = LOXOXLIN = UPTOXLIM =
LARETOX = ABFLMTMP = MOLRATIO = AIRFUEL =
WOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SYSTEM OF UNITS

TCA	CHEMNAME = 2,4,5-TRICHLOROPHENOXACETIC ACID	PATHCODE = 11	
MOLEWT =	255.5	NFP =	431.0
DENSITY =	1000. (E)	DENSTMP =	293.1
CRHO =		LOUPREND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LOHTCPPT =		LOHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	0.2400E-01	SOLUBTMP =	293.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		HTCO:STN =	-0.1500E+08(E)
		LOFL:LIN =	
		INHALTME =	
		MOLRATIO =	
		HTOECCNP =	
		OVCP =	
		VFUPRND =	
		A =	
		SFTNTMP =	
		AHC =	
		BCON =	
		LVUPRND =	
		LOLW:END =	
		SHPS:ATE = S	
		CRITTEMP =	
		CRITPRES =	
		BRHO =	
		LOVISIMP =	
		LQTHRCND =	
		LTCLOBNO =	
		LHCUPBNO =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-04
		FLMETEMP =	0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TCE CHEMNAME = TRICHLOROETHANE PATHCODE = A X Y

MOLEWT =	133.4	NBP =	347.0	NFP =	234.0	(E) CRITTEMP=	CRITPRES=
DENSITY =	1310.	DENSTEMP=	293.2	SHPSIATE=L		ARHO =	1777.
CRHO =	0.0000E+00	LDUPREND=	373.2	LDLWREND=	253.2	LOVISPT=	0.8300E-03
AVIS =	-11.53	BVIS =	1300.	LVUPREND=	303.2	LVLRREND=	263.2
LTHCNTMP=		ACON =		BCON =		LTCUPBND=	
LOHTCPPT=	1026.	LOHTCPTM=	293.2	AHC =	143.7	EMC =	3.014
LHCLOBND=	283.2	SURFTENS=	0.2540E-01	SFTNTEMP=	293.2	INTFTENS=	0.4500E-01(E)
SOLUBPNT=	0.7000E-01	SOLUBTMP=	293.2	A =		B =	
BVP =	1627.	CVP =	0.4004E-01	VUPREND=	363.2	VPLWREND=	293.2
BCVP =	271.7	CVCP =	-0.1675	DVCP =	0.0000E+00	VHCUPBND=	600.0
HTFUSION=		LHTVAPOR=	0.2428E+06	HTCOMBNTN=	-0.1100E+08(E)	HTDECOVP=	
HTREACTN=		HTPOLYMR=		LOFLMLIN=	7.000	UPFLMLIN=	16.00
TOXINHAL=	350.0	INHALCNC=		INHALTME=		UPTOXLIN=	0.5000E-02
LATETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	
MOLFRAC =						FLMETEMP=	
						BURNRATE=	0.4830E-04(E)
						AVP =	9.689
						AVCP =	0.2290E+05
						VHCLOBND=	250.0
						HTSOLUTN=	
						UPTOXLIM=	0.1500E-01

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TCLE CHEMNAME = TRICHLOROETHYLENE PATHCODE = A X Y
 MOLEWT = 131.4 NBP = 360.0 NFP = 186.8 CRITTEMP =
 DENSITY = 1460. DENSTEMP = 293.2 SHPSRATE=L CRHO = -1.500
 CRHO = 0.0000E+00 LOUPRNO = 333.2 LDLWRBND = 253.2 LOVISPT = 0.5800E-03 LOVISTMP = 293.2
 AVIS = -10.28 BVIS = 830.0 LVUPR3ND = 323.2 LVLWRBND = 263.2 LOTHRCNO =
 LTHCNTMP = ACON = LTCUPBND = LTCLOBND =
 LOHTCPPT = 967.1 LOHTCPTM = 293.2 AHC = 598.9 EHC = 1.256 LHCUPBNO = 353.2
 LHCLOBNO = 253.2 SURFTENS = 0.2930E-01 SFTNTMP = 293.2 INTFTENS = 0.4500E-01(E) INTFTTMP = 293.0 (E
 SOLUBPNT = 0.1100 SOLUBTMP = 298.2 A = B = 9.913
 BVP = 1768. CVP = 0.4004E-01 VFUPR3ND = 373.2 VPLWRBND = 273.2 AVCP = 0.3148E+05
 BVCP = 206.4 CVCP = -0.1424 OVCP = 0.0000E+00 VHCUPBND = 600.0 VHCLOBND = 250.0
 HTFUSION = LHTVAPOR = 0.2395E+06 HTCOMSTN = HTDECOMP = HTSOLUTN =
 HTREACTN = HTPOLYMR = LOFLW'LIM = 8.000 UPFLW'LIM = 10.50 BURNRATE =
 TOXINHAL = 100.0 INHALCNC = 200.0 INHALTME = 1800. LOTOX'LIM = 0.5000E-04 UPTOX'LIM = 0.5000E-03
 LATETOX = ABFLMTMP = MOLRATIO = FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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TCP      CHEMNAME = TRICRESYL PHOSPHATE      PATHCODE = A  X

MOLECWT = 368.0      NBP      = 683.0      NFP      = 240.0      CRITTEMP=
DENSITY = 1160.      DENSTEMP= 293.2      SHPSSTATE=L      ARHO      = 1453.      BRHO      = -1.0000
CRHO      = 0.0000E+00      LOUPR8ND= 298.2      LOLWR8ND= 273.2      LQVISTMP= 298.2      LQVISTMP=
AVIS      = -22.30      BVIS      = 5890.      LVUPR8ND= 313.2      LVLWRB'D= 293.2      LOTHRCND=
LTHCNTMP=              ACON      =              BCDN      =              LTCLOBND=
LQHTCPPT= 1591.      LQHTCPTM= 293.2      AHC      = 1591.      BHC      = 0.0000E+00      LHCUPBND= 303.2
LHCL08NO= 278.2      SURFTENS= 0.4400E-01      SFTNTMP= 298.2      INTFTENS= 0.4500E-01(E)      INTFTMP= 293.0 (E)
SOLUBPNT= 0.3000E-03      SOLUBTMP= 298.2      A      =              E      =              AVP      = 10.24 (E)
BVP      = 3575.      (E) CVP      = 0.0000E+00(E)      VFUPR8ND= 680.0      (E) VPLWRB'D= 500.0      (E) AVCP      =
BVCP      =              CVCP      =              DVCP      =              VHCUPBND=              VHCLOBND=
HTFUSIGN=              LHTVAPOR= 0.1860E+06(E)      HTCOM8TN=              HTSOLUTN=
HTREACTN=              HTPQLYMR=              LOFLMLIM=              HTDECOMP=
TOXINHAL=              INHALCNC=              INHALTME=              UPFLMLIM=              BURNRATE=
LATETOX =              ABFLMTMP=              MOLRATIO=              L3TDXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
MOLFRAC =              MOLFRAC =              AIRFUEL =              FLMETEMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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TCS  CHEMNAME = TRICHLOROSILANE          PATHCODE = A  0

MOLEWT = 135.5      NBP = 305.0      NFP = 146.0      CRITTEMP=
DENSITY = 1340.      OENSTEMP= 293.1      SHPSRATE=L      ARHO =
CRHO = 0.0000E+00(E) LDUPRBN= 303.1      LDLWRBN= 273.1      LQVISPNT= 0.3100E-03      LQVISTMP= 298.1      (E) BRHO = -1.000      (E)
AVIS = -11.43      (E) BVIS = 1000.      (E) LVUPRBN= 303.1      LVLWRBN= 288.1      LOTHRCND= 0.1279      (E)
LTHCNTMP= 293.1      ACON = 0.1279      (E) BCON = 0.0000E+00(E) LTCUPBN= 298.1      LTCLOBND= 283.1      LHCUPBND= 298.1
LOHTCPPT= 963.0      LOHTCPTM= 293.1      AHC = 963.0      (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1      INTFTTMP=
LHCLOBND= 283.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS=
SOLUBNT=          SOLUBTMP=          A =          B =          AVP =          9.792
BVP = 1460.      CVP = -0.1500      VFUPRBN= 308.1      VPLWRBN= 213.1      AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBN=          VHCLOBND=
HTFUSION=          LHTVAPOR= 0.2000E+06      HTCONSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLTLIM= 1.200      UPFLMLIM= 90.50      BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PROPERTY FILE VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TCT	CHEMNAME = TRICHLORO-S-TRIAZINETRIONE	PATHCODE = II SS	
MOLEWT =	232.5	NBP =	CRITTEMP=
DENSITY =	1000.	(E) DENSTEMP= 293.1	BRHO =
CRHO =		LOUPRBNO=	LOVISTMP=
AVIS =		BVIS =	LOTHRCND=
LTHCNTMP=		ACON =	LTCLOBNO=
LOHTCPPT=		LOHTCPTM=	LHCUPBND=
LHCLOBND=		SURFTENS=	INTFTTMP=
SOLUBPNT=	1.200	SOLUBTMP= 298.1	AVP =
BVP =		CVP =	AVCP =
BVCP =		CVCP =	VHCLOBNO=
HTFUSICN=		LHTVAPOR=	HTSOLUTN=
HTREACTN=		HTPOLYMR=	BURNRATE=
TOXINHAL=		INHALCNC=	UPTOXLIM= 0.5000E-02
LATETOX =		ABFLMTMP=	FLMETEMP=
MOLFRAC =		MOLRATIO=	
		LOTOXLM= 0.5000E-03	
		AIRFUEL =	
		INTFTENS=	
		BHC =	
		INTFTEMP=	
		AVP =	
		AVCP =	
		VHCLOBNO=	
		HTSOLUTN=	
		BURNRATE=	
		UPTOXLIM=	
		FLMETEMP=	

TDB	CHEMNAME = TETRADECYLBENZENE									
	MOLECWT =	274.5	NBP	=	632.0	NFP	=	289.0	CRITTEMP=	CRITPRES=
	DENSITY =	855.0	DENSTEMP=	293.1	SHPSFATE=L	ARHO	=	1060.	BRHO	= -0.7000
	CRHO	=	0.0000E+00	LDUPRBND=	303.1	LDLWPBNO=	289.1	LQVISPI.T=	0.7680E-02	LQVISIMP= 293.1
	AVIS	=	-12.83	BVIS	=	2334.	LVUPRBNO=	333.1	LVLWRBND=	293.1
	LTHCNTMP=	293.1	ACCN	=	0.1512	(E) BCCN	=	0.0000E+00(E)	LTCUPBND=	298.1
	LQHTCPPT=	1507.	LQHTCPTM=	298.1	AHC	=	1507.	BHC	=	0.0000E+00
	LHCLOBND=	289.1	SURFTENS=	0.3027E-01	SFTNTMP=	293.1	INTFTENS=	INTFTTMP=	LHCUPBND=	298.1
	SOLUBPNT=		SOLUBTMP=		A	=	B	AVP	=	
	BVP	=		CVP	=	VFUPBND=	VPLWRBND=	AVCP	=	
	BVCP	=		CVCP	=	DVCP	=	VHCUPBND=	VHCLOBND=	
	HTFUSION=		LHTVAPOR=	0.2212E+06	HTCOWSTN=	-0.4284E+08	HTDECOMP=	HTSOLUTN=		
	HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=		0.7381E-04
	TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=		
	LATETOX	=	ABFLMTMP=		MOLRATIO=		AIRFUEL	=	FLMETEMP=	
	MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
TDC  CHEMNAME = 1-TRIDECENE  PATHCODE = A T U
MOLEWT = 182.3  NBP = 506.0  CRITTEMP=  CRITPRES=
DENSITY = 765.0  DENSTEMP= 293.2  SHPSATE=L  ARHO = 971.2  BRHO = -0.7000
CRHO = 0.0000E+00  LDUPRND= 313.2  LQVISPT= 0.1630E-02  LOVISTMP= 293.2
AVIS = -12.42  BVIS = 1760.  LVUPRND= 303.2  LVLWRBND= 263.2  LOTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPENO= 300.0 (E) LTCLOBNO= 273.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 300.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= 0.2450E-01  SFTNTEMP= 293.2  INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 9.094
BVP = 1663.  CVP = -99.26  VFUPRND= 423.2  VPLWRBND= 323.2  AVCP = 0.6075E+05
BVCP = 841.1  CVCP = -0.1675  DVCP = 0.0000E+00  VHCUPBND= 600.0  VHCLOSND= 250.0
HTFUSION=  LHTVAPOR= 0.2470E+06  HTCOMSTN= -0.4430E+08  HTOECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  HTOECOMP=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLM=  BURNRATE=
LAFETOX =  ABFLMTMP=  MOLRATIO=  LOTOXLM=  UPTOXLM=
MOLFRAC =  AIRFUEL =  FLMETEMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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TDI  CHEMNAME = TOLUENE 2,4-DIISSOCYANATE (TDI)      PATHCODE = A  X  Y
MOLEWT = 174.2      NBP = 523.0      NFP = 295.0      (E) CRITTEMP=
DENSITY = 1220.      OENSTEMP= 298.2      SHPSRATE=L      ARHO = 1518.      BRHO = -1.0000
CRHO = 0.0000E+00      LDUPREND= 333.2      LDLWRBND= 298.2      LOVISPT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS = -18.80      (E) BVIS = 4000.      (E) LVUPBND= 303.0      (E) LVLWRBND= 293.0      (E) LQTHRCND= 0.1700 (E)
LTHCNTMP= 298.0      (E) ACON = 0.1700      (E) 8CON = 0.0000E+00(E) LTCUPBND= 313.0      (E) LTCLOBND= 298.0 (E)
LQHTCPPT= 2300.      (E) LQHTCPTM= 298.0      (E) AHC = 2300.      (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 298.0      (E) SURFTENS= 0.2500E-01(E) SFTNTEMP= 298.0      (E) INTFTENS= 0.4500E-01(E) INTFTTMP= 298.0 (E)
SOLUBPNT=          SCLUBTMP=          A =          B =          AVP = 11.50
BVP = 3301.      CVP = 0.4004E-01      VFUPRBND= 423.2      VPLWRBND= 323.2      AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOYSTN= -0.2390E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 0.9000      UPFLMLIP= 9.500      BURNRATE=
TOXINHAL= 0.2000E-01      INHALCNC= 0.2000E-01      INHALTME= 300.0      LOTCXLI= 0.5000E-03      UPTOXLIM= 0.5000E-02
LARETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
TDN  CHEMNAME = TRIOECANOL
      MOLECW = 200.4      NBP = 547.0      PATHCODE = A T U
      DENSITY = 846.0      DENSTEMP = 293.2      SHPSSTATE=L      CRITTEYP=
      CRHO = 0.0000E+00      LOUPRENO = 308.2      LDLM3END= 273.2      LOVISPAI= 0.5000E-01      BRHO = -0.8000
      AVIS =      BVIS =      LVUPRSNO=      LVLWR213=      LOTHROND= 0.1600      LOVISIMP= 293.2
      LTHCNTMP= 293.0      (E) ACON = 0.1600      (E) BCON = 0.0000E+00(E) LTCUPSA,D= 303.0      (E) LTCLO340= 293.0      (E)
      LQHTCPPT= 2200.      (E) LOHTCPTM= 293.0      (E) AHC = 2200.      (E) SHC = 0.0000E+00(E) LHCUPBND= 303.0      (E)
      LHCLOBNO= 293.0      (E) SURFTENS= 0.3000E-01(E) SFTNIEMP= 293.0      (E) INTFTE'S= 0.3000E-01(E) INTFTIMP= 293.0      (E)
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.727
      BVP = 1424.      CVP = -164.2      VFUPR2ND= 573.2      VPLWRBND= 393.2      AVCP = 0.3153E+05
      BVCP = 1060.      CVCP = -0.3538      OVCP = 0.0000E+00      VHCUPSA,D= 600.0      VHCLOBNO= 250.0
      HTFUSION=      LHTVAPOR= 0.2680E+06      HTCO33TN= -0.2840E+08(E) HTDECO3P=      HTSOLUTN=
      HTRACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      :OTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TEA CHEMNAME = TRIETHANOLAMINE PATHCODE = A P Q

MOLECW = 149.2	NBP =	NFP = 294.8	CRITTEMP =	CRITPRES =
DENSITY = 1130.	DENSTEMP = 293.2	SHPSATE=L	ARHO = 1423.	BRHO = -1.0000
CRHO = 0.0000E+00	LOUPRBND = 313.2	LDLWRBND = 293.2	LOVISPAT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCCN =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 2052.	LOHTCPTM = 293.2	AHC = 811.6	SHC = 4.187	LHCUPBND = 303.2
LHCLOBND = 283.2	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 10.68
BVP = 2963.	CVP = -86.36	VUPRBND = 623.2	VPLWRBND = 423.2	AVCP = 0.7720E+05
BVCP = 644.8	CVCP = -0.3601	QVCP = 0.7536E+04	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION = 0.1825E+06	LHTVAPOR = 0.4095E+06	HTCOYSTN = -0.2430E+08(E)	HTDECOMP =	HTSOLUTN = -0.5000E+05(E)
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTNE =	LOTOXLIM = 0.5000E+03	UPTOXLIM = 0.5000E+02
LATETOX =	ABFLTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

TEB						CHEMNAME = TRIETHYLBENZENE						
						PATHCODE = A T U						
MOLECWt =		162.3	NBP =	439.0	NFP =	CRTTEMP=	CRITPRES=					
DENSITY =		861.0	OENSTEMP=	293.2	SHPSTATE=L	ARHO =	1153.	BRHO =	-1.0000			
CRHO =		0.0000E+00	LQUPRBN=	313.2	LDLWRBND=	283.2	LQVISPNT=	0.2000E-02(E)	LQVISTMP=	293.0	(E)	
AVIS =		-13.40	(E) BVIS =	2100.	(E) LVUPRBND=	293.0	(E) LVLWRBND=	278.0	(E) LOTHROND=	0.1500	(E)	
LTHCNTMP=		293.0	(E) ACQN =	0.1500	(E) BCCN =	0.0000E+00(E)	LTCUPBND=	293.0	(E) LTCLOBND=	278.0	(E)	
LOHTCPPT=		2000.	(E) LOHTCPTM=	293.0	(E) AHC =	2000.	(E) SHC =	0.0000E+00(E)	LHCUPBND=	298.0	(E)	
LHCLOBNO=		278.0	(E) SURTENS=	0.2500E-01(E)	SFTNTEMP=	293.0	(E) INTFTES=	0.5000E-01(E)	INTFTTMP=	293.0	(E)	
SOLUBPNT=			SOLUSTMP=	A =	B =		AVP =	9.689	(E)			
BVP =		2290.	(E) CVP =	0.0000E+00(E)	VFLUPRBND=	489.0	(E) VPLWRBND=	300.0	(E) AVCP =	2177.		
BVCP =		837.8	CVCP =	-0.3056	DVCP =	0.0000E+00	VHCUPBND=	600.0	VHCLOBND=	250.0		
HTFUSION=			LHTVAPOR=	0.2700E+06(E)	HTCOMSTN=	-0.3780E+08(E)	HTEOECMP=	HTSOLUTN=				
HTREACTN=			HTPOLYMR=	LOFLMLIM=	UPFLMLIM=		BURNRATE=					
TOXINHAL=			INHALLCNC=	INHALTIME=	LOTXLIM=		UPTOXLIM=					
LATETOX =			ABFLMTMP=	MOLRATIO=	AIRFUEL =		FUMETEMP=					
MOLFRAC =												

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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TEC      CHEMNAME = TETRACHLOROETHANE      PATHCODE = A X
MOLECWT = 167.8      NBP = 419.5      NFP = 229.4      CRITPRES=
DENSITY = 1595.      DENSTEMP= 293.1      SHPS:ATE=L      ARHO = 1982.      BRHO = -1.530
CRHO = 0.0000E+00      LDUPBNO= 303.1      LDUPBND= 273.1      LOVISPT= 0 195DE-02      LOVISTMP= 288.1
AVIS = -11.27      8VIS = 1450.      LVUPBND= 303.1      LVLWRSD= 273.1      LOTHRCND= 0.1122
LTHCNTMP= 303.1      ACON = 0.1122      (E) BCON = 0.0000E+00(E)      LTCUPBND= 303.1      LTCLOBND= 273.1
LQHTCPPT= 879.2      LQHTCPTM= 293.1      AHC = 879.2      BHC = 0.0000E+00      LHCUPBNO= 303.1
LHCLOBND= 283.1      SURFTENS= 0.3785E-01      SFTNTEMP= 293.1      INTFTIE'S=      INTFTIMP=
SOLU8PNT= 0.2880      SOLUBTMP= 298.1      A = -0.1798      B = 0.1570E-02      AVP = 9.971
8VP = 2075.      CVP = -0.1500      VFUPBNO= 418.1      VPLWRSD= 299.1      AVCP = 0.5418E+05
BVCP = 156.6      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 400.0      VHCLOBNO= 300.0
HTFUSION=      LHTVAPOR= 0.2300E+06      HTCO:STN=      HTDECCP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 5.000      INHALCNC= 10.00      INHALTME= 1800.      IOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
TED      CHEMNAME = TETRAETHYL DITHIOPYROPHOSPHATE      PATHCODE = A   X   Y
MOLEWT = 322.3      NBP =                                NFP =      CRITTEMP=
OENSITY = 1190.      OENSTEMP= 298.1      SHPSTATE=L      ARHO = 1483.      (E) BRHO = -1.000      (E
CRHO = 0.0000E+00(E) LOUPREND= 303.1      LDLWRBND= 283.1      LOVISPLT=      LOVISTMP=
AVIS =              BVIS =              LVUPRBNB=      LQTHRCND=
LTHCNTMP=          ACON =              BCON =              LTCLOBND=
LOHTCPPT=          LOHTCPTM=          AHC =              SHC =              LHCUPBND=
LHCLOBNO=          SURFTENS=          SFTNTEMP=          INTFTTMS=          INTFTTMP=
SOLUBPNT= 0.2500E-02      SOLUBTMP= 293.1      A =              B =              AVP =
BVP =              CVP =              VFUPRBNB=          VPLARBND=          AVCP =
BVCP =              CVCP =              DVCP =              VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTCXLM=          UPTOXLM= 0.5000E-04(E
LAFETOX =          ABFLNTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELDS VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
TEG      CHEMNAME = TRIETHYLENE GLYCOL      PATHCODE = A  P  Q
MOLEWT = 150.2      NBP = 561.0      NFP = 268.9      CRITTEMP=
DENSITY = 1125.      OENSTEMP= 293.2      SHPSSTATE=L      ARHO = 1331.      CRITPRES=
CRHO = 0.0000E+00      LOUPRNO= 323.2      LOLWRBND= 273.2      LOVISPNT=      LOVISTMP=
AVIS = 8VIS =      LVUPRNO=      LVLWRBND=      LOTHRCND=
LTHCNTMP=      ACCN =      LTCUPBND=      LTCLOBNO=
LOHTCPPT= 2202.      LOHTCPTM= 293.2      AHC = 1220.      BHC = 3.349      LHCUPBNO= 393.2
LHCL08ND= 273.2      SURFTENS= 0.4520E-01      SFTNTMP= 293.2      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.497
BVP = 1936.      CVP = -130.2      VFUPRNO= 593.2      VPLWRBND= 423.2      AVCP = 0.8830E+05
BVCP = 523.3      CVCP = -0.2282      OVCP = 0.2839E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4145E+06      HTCOMSTN= -0.2370E+08      HTDECOMP=      HTSOLUTN= -0.3000E+05(E
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.9000      UPFLMLIM= 9.200      BURNRATE= 0.2833E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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TEN	CHEMNAME = TRIETHYLAMINE	PATHCODE = A P O R S					
	MOLEWT = 101.2	NBP = 362.7	NFP = 158.5	CRITTEMP=	535.0	CRITPRES= 0.3000E+07	
	DENSITY = 729.0	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 1110.	BRHO = -1.300		
	CRHO = 0.0000E+00	LDPREND= 313.2	LDLWEND= 273.2	LQVISPNT=	LQVISTMP=		
	AVIS =	BVIS =	LVUPREND=	LVLRBND=	LQTHRCND=		
	LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=		
	LOHTCPPT= 2324.	LQHTCPTM= 293.2	AHC = 1403.	BHC = 3.14D	LHCUPBND=	373.2	
	LHCLOBND= 253.2	SURFTENS= 0.2070E-01	SFTNTEMP= 293.2	INTFTENS=	INTFTTMP=		
	SOLUBPNT= 5.500	SOLUBTMP= 293.2	A =	B =	AVP = 9.024		
	BVP = 1252.	CVP = -51.16	VFUPREND= 403.2	VPLWRBND=	AVCP = 0.1968E+05		
	BVCP = 514.1	CVCP = -0.1340	DVCP = 0.0000E+00	VHCUPBND=	VHCLOBND= 250.0		
	HTFUSION=	LHTVAPOR= 0.3349E+06	HTCOBTN= -0.3963E+08	HDECONB=	HTSOLUTN= -0.4145E+06		
	HTREACTN=	HTPOLYMR=	LOFLMLIM= 1.200	LPFLMLIN=	BURNRATE= 0.1033E-03		
	TOXINHAL= 25.00	INHLCNC= 100.0	INHALIME= 1800.	LOTOXLIN= 0.5D00E-04	UPTOXLIM= 0.5000E-03		
	LAIETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=		
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TEP  CHERNAME = TETRAETHYL PYROPHOSPHATE      PATHCODE = A  P
MOLECWT = 290.2      NBP =                      NFP =
DENSITY = 1180.      DENSTEMP= 298.1            SHPSATE=L
CRHO = 0.000DE+00(E) LDUPREND= 303.1            LDLPBND= 283.1
AVIS =              BVIS =                      LVUPBND=
LTHCNTMP=          ACON =                      BCON =
LQHTCPPT=          LOHTCPTM=                    AHC =
LHCLOBND=          SURFTENS=                    SFNTTEMP=
SOLUBPNT=          SOLUBTMP=                    A =
BVP =              CVP =                      VFUPBND=
BVCP =             CVCP =                      DVCP =
HTFUSION=          LHTVAPOR=                    HTCOMBIN=
HTREACTN=          HTPOLYMR=                    LOFLMLIM=
TOXINHAL= 0.390DE-02 INHALCNC= 0.193DE-01      INHALTME= 1800.
LAFETOX =          ABFLMTMP=                    MOLRATIO=
MOLFRAC =
CRITPRES=          (E) BRHO = -1.000 (E)
CRITTEMP=          ARHC = 1473.
LOVISITMP=         LOVISPIT=
LOTHRCND=          LVLWRBND=
LTCLOBND=          LTCUPBND=
LHCUPBND=          BHC =
INTFTMP=           INTFTENS=
AVP =              B =
AVCP =             VPLWRBND=
VHCLOBND=          VHCUPBND=
HTSOLUTN=          HTDECON=
BURNRATE=          UPFLMLIM=
UPTOXLIM= 0.500DE-04(E) LOTOXLIM=
FLMETEMP=          AIRFUEL =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TES		CHEMNAME = 2.4.5-T(ESTERS)		PATHCODE = A		X	Y
MOLEWT =	400.0	(E) NBP =	650.0	(E) NFP =			CRITPRES=
DENSITY =	1200.	DENSTEMP=	293.1	SHPSSTATE=L		1453.	BRHO = -1.000
CRHC =	0.0000E+00	LOUPRNO=	298.1	LOLWRND=	273.1		LOVISTMP=
AVIS =		BVIS =		LVUPRND=			LOTHRCND=
LTHCNTMP=		ACCN =		BCON =			LTCLOBND=
LQHTCPPT=		LOHTCPTM=		AHC =			LHCUPBND=
LHCLOBNO=		SURFTENS=		SFTNIEMP=			INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =			AVP = 9.966 (E
BVP =	3060.	(E) CVP =	-0.1500	(E) VFUPRND=	623.1		AVCP =
BVCP =		CVCP =		OVCP =		493.1	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMSTN=			HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=			BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		0.5000E-04	UPTOXLIM= 0.5000E-03
LATETOX =		ABFLNTEMP=		MOLRATIO=			FLMETEMP=
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TET      CHEMNAME = TRIETHYLENETETRAMINE      PATHCODE = A P O
MOLECWt = 146.2      NBP = 550.6      NFP = 238.0      CRITTEMP= 733.0      CRITPRES= 0.3200E+07
DENSITY = 982.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO = 1218.      BRHO = -0.8000
CRHO = 0.0000E+00      LDUPRENO= 323.2      LDWRSND= 273.2      LOVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRSND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPPT= 2200.      (E) LOHTCPTM= 293.0      (E) AHC = 2200.      (E) BHC =      0.0000E+00(E) LHCUPBND= 293.0      (E)
LHCLOBND= 285.0      (E) SURFTENS=      SFINTEMP=      INTFTENS=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A =      E =      AVP =      9.322
BVP = 1897.      CVP = -111.2      VFUPRSND= 593.2      VPLWRBND= 413.2      AVCP =      0.3442E+05
BVCP = 782.9      CVCP = -0.3781      DVCP =      0.3936E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR=      HTCOMBNTN= -0.3150E+08(E) HTDECONB=      HTSOLUIN= -0.3000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIN=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN=      UPTOXLIM=      0.5000E-03      0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TFA	CHEMNAME = TALLOW FATTY ALCOHOL	PATHCODE = II
MOLEWT =	262.0	NBP = 522.0 (E) NFP = 326.0
DENSITY =	810.0	OENSTMP = 298.1 SHPSIATE=S
CRHO =		LDUPRND=
AVIS =		BVIS =
LTHCNTMP=		ACON =
LQHTCPPT=		LQHTCPTM=
LHCLOBNO=		SURFTENS=
SOLUBPNT=		SOLUBTMP=
BVP =		CVP =
BVCP =		CVCP =
HTFUSION=		LHTVAPOR=
HTREACTN=		HTPOLYMR=
TOXINHAL=		INHALCNC=
LAFETOX =		ABFLMTMP=
MOLFRAC =		

CRITPRES=	CRITTEMP=
BRHO =	ARHO =
LQVISTMP=	LOVISPT=
LQTHFCND=	LVLWRB'D=
LTCLOBND=	LTCUPB'D=
LHCUPBNO=	BHC =
INTFTTMP=	INTFTENS=
AVP =	E =
AVCP =	VPLWRB'D=
VHCLOBND=	VHCUPB'D=
HTSOLUTN=	HTCON:STN= -0.4300E+08(E) HTDECOMP=
BUPNRATE=	UPFLMLIN=
UPTOXLIM=	LOTOXLIM=
FLMETEMP=	AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TFC  CHEMNAME = TRIFLUOROCHLOROETHYLENE      PATHCODE = A  B  C  H  I  J
MOLEWT = 116.5      NBP = 245.0      NFP =      CRITTEMP= 379.4      (E) CRITPRES= 0.4080E+07(E)
DENSITY = 1305.      DENSTEMP= 293.1      SHPSSTATE=L      ARHO =      BRHO =
CRHO =      LDUPREND=      LDWRBND=      LOVISFNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPTM=      LOHTCPTM=      AHC =      EHC =      LHCUPBND=
LHCLOBNO=      SURFENS= 0.1200E-01(E) SFTNTMP= 293.1      INTFTEMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.806
BVP = 931.0      CVP = -0.1500      VFUPRND= 263.1      VPLWRBND= 243.1      AVCP =
BVCP =      CVCP =      OVCP =      VHCUPBND=      VHCLOBNO=
HTFUSCN=      LHTVAPOR= 0.1920E+06      HTCOASTN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 16.00      UPFLMLIM= 34.00      BURNRATE=
TOXINHAL= 20.00      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO= 0.7000      (E) AIRFUEL = 2.946      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TFE  CHEMNAME = TETRAFLUOROETHYLENE. INHIBITED  PATHCODE = A  B  C  Z
MOLEWT = 100.0  NBP = 197.0  NFP = 131.0  CRITTEMP = 306.0  (E) CRITPRES = 0.3950E+07(E)
DENSITY =  OENSTEMP =  SHPSTATE=G  ARHO =  BRHO =
CRHO =  LDUPRND =  LDWRBND =  LOVISPT =  LOVISTMP =
AVIS =  BVIS =  LVUPRND =  LVLWRBND =  LOTHRCND =
LTHCNTMP =  ACON =  BCON =  LTCUPBND =  LTCLOBND =
LOHTCPPT =  LOHTCPTM =  AHC =  BHC =  LHCUPBND =
LHCLOBND =  SURFTENS =  SFTNTMP =  INTFTENS =  INTFTTMP =
SOLUBPNT =  A =  E =  AVP = 9.459
EVP = 875.1  CVP = -0.1500  VFUPRND = 273.1  VPLWRBND = 197.1  AVCP = 0.2607E+05(E)
EVCP = 205.1  (E) CVCP = -0.1496  (E) DVCP = 0.3797E-04(E)  VHCUPBND = 500.0  VHCLOBND = 250.0
HTFUSION =  HTVAFOR =  HTCO:STN = -0.9000E+07(E)  HTDECONP =  HTSOLJTN =
HTREACTN =  HTPOLYMR = -0.1050E+07  LOFLMLIM = 10.00  UPFLMLIM = 50.00  BURNRATE =
TOXINHAL =  INHALCNC =  INHALTME =  LOTOX LIM =  UPTOX LIM =
LATETOX =  ABFLMTMP =  MOLRATIO = 0.7500  (E) AIRFUEL = 2.746  (E) FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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TFR    CHEMNAME = TRIFLURALIN                PATHCODE = 11
MOLEWT = 335.3      NBP      =
DENSITY = 1000.      (E) DENSTEMP= 293.1      CRITTEMP=
CRHO      =          LDUPRBND=          ARHO      =
AVIS      =          BVIS      =          LQVISTMP=
LTHCNTMP=          ACON      =          LQTHRCND=
LQHTCPPT=          LOHTCPTM=          LTCLOBND=
LHCLOBND=          SURTENS=          LHCUPBND=
SOLUBPNT= 0.1000E-03(E) SOLUSTMP= 300.1      AVP      =
BVP      =          CVP      =          AVCP      =
BVCP      =          CVCP      =          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          BURNRATE=
TOXINHAL=          INHALCNC=          UPTOXLIM= 0.1500E-01
LATETOX   =          ABFLMTMP=          FLMETEMP=
MOLFRAC   =          MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TGC  CHEMNAME = TRIPROPYLENE GLYCOL      PATHCODE = A  P  O
MOLECWT = 192.3      NBP      = 546.0      NFP      = 228.0      CRITTEMP=
DENSITY = 1021.      DENSTEMP= 293.1      SHPSIATE=L      ARHO      = 1313.      (E) BRHO      = -1.000      (E
CRHO      = 0.0000E+00(E) LDUPREND= 303.1      LDWRBND= 273.1      LOVISBND=
AVIS      =          BVIS      =          LVUPREND=          LVLWRBND=
LTHCNTMP=          ACON      =          BCON      =          LTCUPBND=
LOHTCPPT=          LOHTCPTM=          AHC      =          BHC      =
LHCLOBND=          SURFTENS=          SFTNTEMP=          INTFTENS=
SOLUBPNT=          SOLUBTMP=          A      =          B      =
BVP      =          CVP      =          VFUPRBND=          VPLWRBND=
BVCP      =          CVCP      =          DVCP      =          VHCUPBND=
HTFUSIGN=          LHTVAPOR=          HTCOMBNTN= -0.3180E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 0.8000      (E) UPFLMLIN= 5.000      (E) BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIN= 0.1500E-01(E) UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

THF	CHEMNAME = TETRAHYDROFURAN	PATHCODE = A	P	Q	R	S
MOLECW	= 72.10	NBP	= 339.0	NFP	= 164.7	CRITTEMP= 540.2
DENSITY	= 888.0	DENSTEMP=	293.2	SHPSRATE=L		CRITPRES= 0.5190E+07
CRHO	= 0.0000E+00	LOUPREND=	323.2	LOLWRBND=	273.2	BRHO = -1.100
AVIS	=	8VIS	=	LVUPRBND=		LOVISTMP=
LTHCNTMP=		ACON	=	BCON	=	LOTHRCNO=
LOHTCPPT=	1675.	LOHTCPTM=	293.2	AHC	= 754.2	LTCLOBND=
LHCLOBND=	253.2	SURFTENS=	0.2800E-01	SFTNTEMP=	293.2	LHCUPBND= 373.2
SOLUBPNT=		SOLUBTMP=		A	=	INTFTTMP=
BVP	= 1707.	CVP	= 0.4004E-01	VUPREND=	333.2	AVP = 10.05
BVCP	= 357.3	(E) CVCP	= -0.1810	(E) DVCP	= 0.3200E-04(E)	AVCP = 0.1852E+05(E)
HTFUSION=		LHTVAPOR=	0.4103E+06	HTCOMSTN=	-0.3488E+08	(E) VHCLOBND= 300.0 (E)
HTREACTN=		HTPOLYMR=		LOFLMLIM=	1.800	HTSOLUTN= -0.3000E+05(E)
TOXINHAL=	200.0	INHALCNC=	500.0	INHALTME=	1800.	BURNRATE= 0.7833E-04
LATETOX	=	ABFLMTMP=		MOLRATIO=		UPTOXLIM= 0.5000E-03
MOLFRAC	=					FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
THN  CHEMNAME = TETRAHYDRONAPHTHALENE  PATHCODE = A  T  U
MOLEWT = 132.2  NBP = 481.0  NFP = 242.6  CRITTEMP=  CRITPRES=
DENSITY = 974.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1263.  BRHO = -1.0000
CRHO = 0.0000E+00  LDUPRBND= 303.2  LDLRBND= 273.2  LQVISPT= 0.2000E-02  LQVISTMP= 298.2
AVIS = -11.73  BVIS = 1640.  LVUPRBND= 353.2  LVLWRBND= 283.2  LQTHRCND= 0.1500  (E)
LTHCNTMP= 293.0  (E)  ACON = 0.1500  (E)  BCON = 0.0000E+00(E)  LTCUPBND= 303.0  (E)  LTCLOBND= 283.0  (E)
LOHTCPPT= 1675.  LOHTCPTM= 293.2  AHC = 1675.  EHC = 0.0000E+00  LMCUPBND= 303.2
LMCLOBND= 273.2  SURFTENS= 0.3550E-01  SFTNTMP= 293.2  INTFTENS= 0.4500E-01(E)  INTFTTMP= 293.0  (E)
SOLUBPNT=  SOLUBTMP=  A =  E =  AVP = 10.12
BVP = 2455.  CVP = 0.4004E-01  VFUPRBND= 473.2  VPLWRBND= 293.2  AVCP =  VHCLOBND=
BVCP =  CVCN =  DVCP =  VHCUPBND=
HTFUSION=  LHTVAPOR= 0.3203E+06  HTCONSTN= -0.4300E+08(E)  HTDECONP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLVLIM= 0.8000  UPFLMLIM= 5.000  BURNRATE=
TOXINHAL= 25.00  INHALCNC=  INHALTWE=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LAFETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

THR CHEMNAME = THIRAM

PATHCODE = II

MOLECW = 240.4	NBP =	NFP = 422.0	(E) CRITENP =	CRITPRES =
DENSITY = 1430.	OENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBN =	LDLWFSND =	LOVISPAT =	LOVISTMP =
AVIS =	BVIS =	LVUPFSND =	LVLRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBNO =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	S =	AVP =
BVP =	CVP =	VFUPRBN =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCORGIN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.4660	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
TIA  CHEMNAME = TRIISOBUTYLALUMINUM      PATHCODE = A  O  Z
MOLECWT = 198.3      NBP = 485.0      CRITTEMP=
DENSITY = 788.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1101.      CRITPRES=
CRHO = 0.0000E+00      LDUPREND= 373.1      LDWRBND= 274.1      LQVISPT= 0.2300E-02      LQVISTMP= 293.1      BRHO = -1.070
AVIS = -13.13      BVIS = 2068.      LVUPRENO= 353.1      LVLWRBND= 283.1      LQTHRCND= 0.1628      LQTHRCND= 0.1628      (E)
LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPT= 2240.      LQHTCPTM= 293.1      AHC = 1013.      (E) EHC = 4.187      (E) LHCUPBND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2400E-01(E) SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPT=      SOLUBTMP=      A =      B =      AVP = 9.472
BVP = 1842.      CVP = -73.15      VFUPREND= 363.1      VPLWRBND= 328.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2300E+06      HTCO2STN= -0.4282E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

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PATHCOOE = A P O T U X Y

[illegible]

PROPERTY FILE FIELDS VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TLO		CHEMNAME = TALLOW		PATHCODE = A T U	
MOLEWT =		NBP =		NFP =	28D.0 (E) CRITTEMP=
DENSITY =	85D.0 (E) OENSTMP=	343.2		SHPSRATE=L	ARHO = 870.0 (E) BRHO = 0.0000E+00(E
CRHO =	0.0000E+00(E) LDUPREND=	390.0 (E)		LDLWRBND=	350.0 (E) LQVISFNT= 0.1650E-01(E) LOVISTMP= 373.2
AVIS =	BVIS =			LVUPREND=	LVLWRBND=
LTHCNTMP=	300.0 (E) ACCN =	0.1500 (E)		BCON =	0.0000E+00(E) LTCUPBND= 310.0 (E) LTCLOBND= 290.0 (E
LQHTCPPT=	2000. (E) LQHTCPTM=	370.0 (E)		AHC =	2000. (E) BHC = 0.0000E+00(E) LHCUPBNO= 400.0 (E
LHCLOBND=	360.0 (E) SURFIENS=	0.3000E-01(E)		SFTNTMP=	370.0 (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 373.0 (E
SOLUBPNT=				A =	8 =
BVP =				VFUPREND=	VPLWRBND=
BVCP =				OVCP =	VHCUPBND=
HTFUSIGN=	LHTVAPOR=			HTCDWBTN=	-0.4200E+08(E) HTDECOMP=
HTREACTN=	HTPOLYMR=			LOFLMLIM=	UPFLMLIM=
TOXINHAL=	INHALCNC=			INHALTME=	LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LAFETOX =	ABFLNTMP=			MOLRATIO=	AIRFUEL =
MOLFRAC =					FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TMC CHEMNAME = TRIMETHYLCHLOROSILANE PATHCODE = A 0

MOLEWT =	108.7	NBP =	330.0	CRITTEMP =		CRITPRES =	
DENSITY =	846.0	DENSTEMP =	298.1	SHPSRATE=L		ARHO =	1143. (E) BRHO = -1.000 (E)
CRHO =	0.0000E+00(E)	LDUPRBCN =	303.1	LDLWRBND =	278.1	LOVISTMP =	
AVIS =		BVIS =		LVUPRBNB =		LQTHRCND =	0.1396 (E)
LTHCNTMP =	293.1	ACON =	0.1396 (E)	BCON =	0.0000E+00(E)	LTCLOBND =	283.1
LQHTCPT =	1465. (E)	LQHTCPTM =	293.1	AHC =	1465. (E)	LHCUPBND =	298.1
LHCLOBND =	283.1	SURFTENS =	0.2500E-01(E)	SFTNTMP =	293.1	INTFTTMP =	
SOLUBPNT =		SOLUBTMP =		A =		AVP =	10.03 (E)
BVP =	1658. (E)	CVP =	-0.1500 (E)	VFUPRBNB =	333.1	AVCP =	0.7905E+05(E)
BVCP =	174.2 (E)	CVCP =	0.0000E+00(E)	OVCP =	0.0000E+00(E)	VHCLOBND =	300.0
HTFUSION =		LHTVAPOR =	0.2900E+06	HTCONSTN =	-0.2400E+08(E)	HTSOLUTN =	
HTREACTN =		HTPOLYMR =		LOFLTLIM =	1.800	BURNRATE =	0.8851E-04
TOXINHAL =		INHALCNC =		INHALTME =		UPTOXLIM =	0.5000E-02
LAFETOX =		ABFLMTMP =		MOLRATIO =		FLMETEMP =	
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TML  CHEMNAME = TETRAMETHYL LEAD          PATHCODE = A  X  Y
MOLEWT = 267.3 (E) NEP = 383.0 NFP = 245.7 CRITTEMP = CRITPRES =
DENSITY = 2000. DENSTEMP = 293.2 SHPSSTATE=L BRHO = 2000. (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LOUPREND = 303.0 (E) LDLWREND = 283.0 (E) LOVISPRNT = 0.7500E-03(E) LOVISTMP = 293.0 (E)
AVIS = -11.70 (E) BVIS = 1320 (E) LVUPREND = 303.0 (E) LVLWREND = 283.0 (E) LQTHRCND =
LTHCNTMP = ACCN = BCCN = LTCUPEND = LTCLOBND =
LOHTCPPT = 2500. (E) LOHTCPTW = 293.0 (E) AHC = 2500. (E) EMC = 0.0000E+00(E) LHCUPEND = 313.0 (E)
LHCLOBND = 283.0 (E) SURFTENS = 0.4000E-01(E) SFTNTMP = 293.0 (E) INTFTENS = 0.4000E-01(E) INTFTTMP = 293.0 (E)
SOLUBPNT = SOLUBTMP = A = B = AVP = 9.706 (E)
BVP = 1800. (E) CVP = 0.0000E+00(E) VLUPREND = 383.0 (E) VPLWREND = 300.0 (E) AVCP =
BVCP = CVCP = OVCP = VMCUPEND = VMCLOBND =
HTFUSION = LHTVAFOR = 0.1290E+06(E) HTCOMBTN = -0.1230E+08(E) HTDECCMP = HTSOLUTN =
HTREACTN = LHTPOLYMR = LOFLYLIM = UPFLMLIM = BURNRATE =
TOXINHAL = 0.1260E-01(E) INHALCNC = INHALTWE = LOTOXLIM = UPTOXLIM =
LATETOX = ABFLNTMP = MCLRATIO = AIRFUEL =
MOLFRAC =

```

PATHCODE = SS

MOLECWT =	1701.	=	NBP	=	NFP	=	CRITTEMP=
DENSITY =	1000.	(E)	DENSTEMP=	293.1	SHPSTATE=S	=	BRHO =
CRHO =			LDPUBND=		LDLWPBND=		LOVISTMP=
AVIS =			BVIS =		LVUPRBD=		LOTHERCND=
LTHCNTMP=			ACCN =		BCCN =		LTCLOBND=
LQHTCPPPT=			LOHTCPIN=		AHC =		LHCUPBND=
LHCL08A.O=			SURFTENS=		SFTNTEMP=		INTFTIMP=
SOLUBPNT=	300.0		SOLUTMP=	293.1	A =		AVP =
BVP =			CVP =		VUPRBD=		AVCP =
BVCP =			CVCV =		DVCP =		VHCLOBND=
HTFUSION=			LHTVAPOR=		HTCOMBTN=	-0.2280E+08	HTSOLUTN=
HTRACTN=			HTPOLYMR=		LOFLYLIM=		BURNRATE=
TOXINHAL=			INHALCNC=		INHALIME=		UPTOX LIM=
LAFETOX =			ABFLMTMP=		MOLRATIO=		FLMETEMP=
MOLFRAC =							

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS): DATE 12/07/76 TIME 01/20/12 PAGE396A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TOL		CHEMNAME = TOLUENE		PATHCODE = A T U	
MOLECW	= 92.14	NBP	= 383.8	NFP	= 178.2
DENSITY	= 867.0	OENSTEMP	= 293.2	SHPSATE=L	
CAHO	= 0.0000E+00	LOUPPNO	= 323.2	LDLWABND	= 233.2
AVIS	= -11.15	BVIS	= 1090.	LVUPRSNO	= 313.2
LTHCNTMP	= 293.2	ACON	= 0.2193	BCON	= -0.2791E-03
LQHTCPPT	= 173B.	LQHTCPTN	= 293.2	AHC	= 1124.
LHCLOBND	= 253.2	SURFTENS	= 0.2900E-01	SFTNTEMP	= 293.2
SOLUBPAT	= 0.5000E-01	SOLUBTMP	= 293.2	A	=
BVP	= 1345.	CVP	= -53.66	VUPRSNO	= 373.2
BVCP	= 481.1	CVCP	= -0.1968	OVCP	= 0.0000E+00
HTFUSION		LHTVAPOR	= 0.3605E+06	HTCOMSTN	= -0.4055E+08
HTREACTN		HTPOLYMP		LOFLMLIM	= 1.270
TOXINHAL	= 100.0	INHALCNC	= 600.0	INHALTME	= 1800.
LATEETOX		ABFLMTMP		MOLRATIO	=
MOLFRAC	=				
				CRITTEMP	= 591.8
				CRITPRES	= 0.4108E+07
				BRHO	= -0.9000
				LOVISTMP	= 293.2
				LQTHRCNO	= 0.1372
				LTCLOBND	= 253.2
				LHCUPBND	= 333.2
				INTFTIMP	= 298.2
				AVP	= 9.080
				AVCP	= -0.2211E+05
				VHCLOBND	= 250.0
				HTSOLUTN	=
				BURNRATE	= 0.9500E-04
				UPTOXLIM	= 0.5000E-02
				FLMETEMP	=
				UPFLMLIM	= 7.000
				LOTOXLIM	= 0.5000E-03
				AIRFUEL	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
TPH      CHEMNAME = TRICHLOROPHENOL      PATHCODE = II
MOLECWt = 197.5      NBP = 525.0      NFP = 330.0      CRITTEMP=
DENSITY = 1700.      DENTEMP= 298.2      SHPSTATE=S      ARHC =
CAHO =      LDUPRBN=      BVIS =      LVUPRBN=      LOVISPT=
AVIS =      ACCN =      LOHTCPTM=      SURFTENS=      SFTNTEMP=
LTHCNTMP=      SOLUBPNT= 0.1000      (E) SOLUBTMP= 298.2      A =
BVP =      CVP =      VUPRBN=      VPLWRBN=
BVCP =      CVCP =      LHTVAPOR=      HTDECON=
HTFUSION=      HTPOLYMR=      LOFLWLIM=
HTREACTN=      INHALCNC=      INHALTIME=
TOXINHAL=      ABFLNTEMP=      MOLRATIO=
LATETOX =      MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=
0.5000E-03

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TPO	CHEMNAME = TRIS(AZIRIDINYL)PHOSPHINE OXIDE	PATHCODE = SS	
MOLECWT =	173.2	NBP =	314.D
DENSITY =	1000.	(E) OENSTEMP =	293.1
CRHO =		LDUPREND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LHOCPTP =		LHOCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPDLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLNTEMP =	
MOLFRAC =			
		CRITTEMP =	
		ARHO =	
		LOVISTMP =	
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-03
		LOTOXLIM =	0.5000E-04
		AIRFUEL =	

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TRN	CHEMNAME = THORIUM NITRATE	PATHCODE = SS	
	MOLECW = 555.2	NBP =	CRITPRES =
	DENSITY = 1000. (E) DENSITY = 293.1	SHPSATE = S	BRHO =
	CRHO =	LDLWRBND =	LQVISTMP =
	AVIS =	LVUPRND =	LOTHRCND =
	LTHCNTMP =	BCON =	LTCLOBND =
	LOHTCPPT =	AHC =	LHCUPBND =
	LHCLOBND =	SFTNTEMP =	INTFTMP =
	SOLUBPNT =	A =	AVP =
	BVP =	VFUPRND =	AVCP =
	BVCP =	DVCP =	VHCLOBND =
	HTFUSION =	HTCOMBIN =	HTSOLUTN =
	HTREACTN =	LOFLMLIM =	BURNRATE =
	TOXINHAL =	INHALTME =	UPTOXLIM =
	LAFETOX =	ABFLVTMP =	FLMETEMP =
	MOLFRAC =	MOLRATIO =	

2

MOLECWt =	196.4	NBP	=	524.3	NFP	=	260.3	CRITTEMP=	CRITPRES=
DENSITY =	771.0	DENSTEMP=		293.2	SHPSSTATE=L			BRHO	= -0.8000
CRHO	=	0.0000E+00		LOUPREND=	353.2	LOLUPEND=	273.2	LOVISINT=	0.2010E 02
AVIS	=	-12.69		BVIS	=	1900.		LOTHRCND=	0.1500 (E
LTHCNTMP=	293.0	(E) ACON	=	0.1500	(E) BCON	=	0.0000E+00(E)	LTCUPEND=	298.0 (E)
LOHTCPT=	1897.	LOHTCPTM=		293.2	AHC	=	1897.	BHC	= 0.0000E+00
LHCLOBND=	273.2	SURFTENS=		0.2500E-01	SFTINTEMP=		293.2	INTFTES=	0.4500E-01(E)
SOLUBPNT=		SOLUBTMP=			A	:		B	=
BVP	=	1700.		CVP	=	-108.0		VPLWRBND=	373.2
BVCP	=	1093.		CVCP	=	-0.3873		DVCP	= 0.0000E+00
HTFUSIGN=		LHTVAPOR=		0.2391E+06	HTCCRGTN=		-0.4094E+08	HTOECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=			LOFLMLIM=			UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=			INHALTME=			LOTOXLIM=	UPTOXLIM=
LATETOX	=	ABFLMTMP=			MOLRATIO=			AIRFUEL	=
MOLFRAC	=								

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/20/23 PAGE403/A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TTE CHEMNAME = TETRACHLOROETHYLENE

PATHCODE = X

MOLEWT = 165.8	NBP = 394.0	NFP = 250.8	CRITTEMP = 620.0	CRITPRES =
DENSITY = 1630.	OENSTEMP = 293.2	SHPSSTATE = L	ARHO = 2124.	BRHO = -1.700
CRHO = 0.0000E+00	LOUPRNO = 353.2	LDLWPNBND = 273.2	LOVISPLT = 0.8410E-03	LOVISIMP = 298.2
AVIS = -10.24	BVIS = 940.0	LVUPPNO = 353.2	LVLWRBND = 283.2	LOTHRCNO =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LOHTCPPT = 862.5	LOHTCPTM = 293.2	AHC = 617.0	BHC = 0.8374	LHCUPBND = 373.2
LHCLOBND = 253.2	SURFTENS = 0.3130E-01	SFTNTEMP = 293.2	INTFTERS = 0.4000E-01(E)	INTFTTMP = 293.0 (E)
SOLUBPNT = 0.1650E-01	SOLUBTMP = 293.2	A =	B =	AVP = 10.09
BVP = 1986.	CVP = 0.4004E-01	VFUPPNO = 413.2	VFLWRBND = 288.2	AVCP = 0.3148E+05
BVCP = 206.4	CVCP = -0.1424	OVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.2098E+06	HTCONSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLM =	UPFLWLM =	BURNRATE =
TOXINHAL = 100.0	INHALCNC =	INHALTIME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/20/26 PAGE404/A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TTG CHEMNAME = TETRAETHYLENE GLYCOL

PATHCODE = A P Q

MOLEWT = 194.2	NBP = 600.0	NFP = 269.0	CPITTEMP =	CRITPRES =
DENSITY = 1120.	DENSTEMP = 293.1	SHPSTATE=L	BRHO = 1413.	BRHO = -1.000
GRHO = 0.0000E+00	LDUPRBNQ = 303.1	LDLWRBND = 273.1	LOVISPI.T = 0.4460E-01	LOVISIMP = 298.1
AVIS =	BVIS =	LVUPRBNQ =	LVLWRBND =	LOTHPCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS = 0.1881E-01	SFTN'EMP = 600.1	INTFTT'S =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VUPRBNQ =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -D.2450E+08	HTDECON =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFL' LIM =	LPFL' LIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOX LIM = 0.15DDE-01(E)	UPTOX LIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	APFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ITEM	CHEMNAME = TETRAETHYLENEPENTAMINE	PATHCODE = A P Q			
	MOLEWT = 189.0	NBP =	613.0	NFP = 243.0	CRITTEMP=
	DENSITY = 998.0	DENSTEMP=	293.1	SHPSRATE=L	BRHO =
	CRHO =	LDUPREND=		LDLWREND=	LQVISTMP=
	AVIS =	BVIS =		LVUPREND=	LOTHCEND=
	LTHCNTMP=	ACON =		BCON =	LTCLOBND=
	LQHTCRPT=	LQHTCPTM=		AHC =	LHCUPEND=
	LWCLOBNO=	SURFTENS=		SFTNTEMP=	INTFTMP=
	SOLUBPNT=	SOLUBTMP=		A =	AVP =
	BVP =	CVP =		VFLUPREND=	AVCP =
	BVCP =	CVCP =		OVCP =	VHCLOBND=
	HTFUSION=	LHTVAPOR=		HTCOYSTN=	HTSOLUTN=
	HTREACTN=	HTPOLYMR=		LOFLMLIM=	4.600 (E) BURNRATE=
	TOXINHAL=	INHALCNC=		INHALTIME=	0.5000E-03 UPTOXLM=
	LARETOX =	ABFLMTMP=		MOLRATIO=	FLMETEMP=
	MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/20/30 PAGE407A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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TTT  CHEMNAME = TITANIUM TETRACHLORIDE          PATHCODE = A  0
      MOLEWT = 189.7      NBP = 409.0      NFP = 249.0      CRITTEMP=
      OENSITY = 1726.      OENSTEMP= 293.2      SHPSIATE=L      ARHO = 2224.      BRHO = -1.700
      CRHO = 0.0000E+00      LOUPRNO= 323.2      LOLWRBND= 273.2      LOVISPT= LQTHRCNO=
      AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LTCUPBND=      LTCLOBNO=
      LTHCNTMP=      ACON =      BCON =      AHC = 795.5      BHC = 0.0000E+00      LHCUPBNO= 373.2
      LOHTCPPT= 795.5      LOHTCPTM= 293.2      AHC = 795.5      BHC = 0.0000E+00      LHCUPBNO= 373.2
      LHCLOBND= 273.2      SURFTENS=      SFTNIEMP=      INTFTIENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.517 (E
      BVP = 1845. (E) CVP = 0.0000E+00(E) VFUPRNO= 409.0 (E) VPLWRBND= 350.0 (E) AVCP = 0.4600E+05(E
      BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) OVCP = 0.0000E+00(E) VHCUPBND= 350.0 (E) VHCLOBNO= 300.0 (E
      HTFUSION=      LHTVAPOR= 0.1855E+06      HTCOV9TN=      HTOECONP=      HTSOLUTN=
      HTREACTN= -0.1122E+07      HTPOLYMR=      LOFLWLM=      UPFLWLM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
      LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TXP	CHEMNAME = TOXAPHENE	PATHCODE = II A T U	
MOLEWT =	414.0	NFP =	363.0 (E) CRITTEMP =
DENSITY =	1600.	SHESSTATE=S	BRHO =
CRHO =		LDUPREND=	LOVISIMP=
AVIS =		BVIS =	LQTHRCND=
LTHCNTWP=		ACON =	LTCLOBNO=
LQHTCPPT=		LOHTCPTM=	LHCUPBND=
LHCLOBNO=		SURFTENS=	INTFTIMP=
SOLUBPNT=	0.3000E-03	SOLUBTMP=	293.2
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION=		LHTVAPOR=	
HTREACTN=		HTPOLYMR=	
TOXINHAL=		INHALCNC=	
LAIETOX =		ABFLMTMP=	
WOLFRAC =			
		UPFLMLTY=	BURNRATE= 0.9667E-04
		LOTOXLIM=	0.5000E-04(E) UPTOXLIM=
		AIRFUEL =	FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

UAN  CHEMNAME = URANYL NITRATE          PATHCODE = SS
MOLEWT = 502.1      NBP =      CRITPRE=
DENSITY = 2810.     DENSTEMP= 286.1  CRITEMP=
CRHO =             LDUPRND=          ARHO =
AVIS =             BVIS =            LOVISIMP=
LTHCNTMP=          ACON =            LQTHRCND=
LOHTCPPT=          LOHTCPTM=          LTCLOBND=
LHCLOBND=          SURFTENS=          LHCUPBND=
SOLUBPNT= 60.00    SOLUBTMP= 293.1  INTFTIMP=
BVP =             CVP =             AVP =
BVCP =            CVCP =            VPLWRBND=
HTFUSIGN=          LHTVAPOR=          VHCUPBND=
HTREACTN=          HTPOLYMR=          HTSOLUTN=
TOXINHAL= 0.2200E-02 INHALCNC=          UPFLMLIM=
LATETOX =          ABFLMTMP=          LOTOXLIM= 0.5000E-04
MOLFRAC =          MOLRATIO=          FLMETEMP=

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HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/20/34 PAGE41D A

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

UDB	CHEMNAME = N-UNDECYLBENZENE	PATHCODE = A T J	
MOLECWT =	232.4	NBP =	589.0
DENSITY =	855.0	DENSTEMP =	293.1
CRHO =	0.0000E+00	LDUPRND =	303.1
AVIS =	-12.61	BVIS =	2117.
LTHCNTMP =		ACON =	
LOHTCPPT =		LOHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	0.2354E+06
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
WOLFRAC =			

CRITPRES =	0.1610E+07	CRITTEMP =	765.5
BRHO =	-0.7000	ARHO =	1060.
LOVISTMP =	293.1	LOVISPAT =	0.4570E-02
LOTHROND =		LVLWRBND =	283.1
LTCLOBNO =		LTCUPBND =	
LHCUPBND =		BHC =	
INTFTIMP =		INTFTENS =	
AVP =		B =	
AVCP =		VPLWPSND =	
VHCLOBND =		VHCUPBND =	
HTSOLUTN =		HTDECOMP =	
BURNRATE =		UPFLWLIM =	
UPTOXLIM =		LOTOXLIM =	
FLMETEMP =		AIRFUEL =	

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

F/G 7/2

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DOT-CG-24655-A

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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UDC  CHEMNAME = 1-UNOECENE
      PATHCODE = A T U
MOLECWT = 154.2 NBP = 465.9 NFP = 224.0 CRITTEMP= CRITPRES=
DENSITY = 750.0 OENSTEMP= 293.2 SHPSSTATE=L ARHO = 846.9 BRHO = -0.3000
CRHO = 0.0000E+00 LOUPRBN0= 303.2 LDLWRBND= 273.2 LQVISP.T= 0.1030E-02 LOVISTMP= 293.2
AVIS = -12.00 8VIS = 1500. LVUPRBN0= 303.2 LVLWRBND= 273.2 LOTHRCNO= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCURBND= 298.0 (E) LTCLO8NO= 273.0 (E)
LQHTCPPT= 2010. LOHTCPTM= 293.2 AHC = 2010. BHC = 0.0000E+00 LHCUP8NO= 323.2
LHCLO8ND= 273.2 SURFTENS= 0.2340E-01 SFTNTEMP= 293.2 INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT= SOLUBTMP= A = 5 = 9.091 AVP =
8VP = 1562 CVP = -83.46 VFUPRBN0= 503.2 VPLWRBND= 293.2 AVCP = 0.1926E+05
8VCP = 852.9 CVCP = -0.3014 DVCP = 0.0000E+00 VHCUPBND= 600.0 VHCLO8NO= 250.0
HTFUSION= LHTVAPOR= 0.3592E+06 HTCOMBTN= -0.4439E+08 HTOECONP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLWLM= UPFLWLM= BURNRATE= 0.8000E-04
TOXINHAL= INHALCNC= INHALTME= LOTOXLM= UPTOXLM=
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

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 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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UND  CHEMNAME = UNDECANOL                                PATHCODE = A T U
MOLECWT = 172.3      NBP      = 518.0      NFP      = 289.1      CRITTEMP= 666.0      CRITPRES= 0.2100E+07
DENSITY = 835.0      OENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1128.      BRHO      = -1.0000
CRHO      = 0.0000E+00      LDUPRNO= 308.2      LDUPRND= 283.2      LQVISPNT=      LOVISTMP=
AVIS      =      BVIS      =      LVUPRND=      LVLWRBND=      LOTHRCND= 0.1600      (E)
LTHCNTMP= 293.0      (E)      ACON      = 0.1600      (E)      BCON      = 0.0000E+00(E)      LTCUPBND= 303.0      (E)      LTCLOBND= 293.0      (E)
LOHTCPPT= 2040.      (E)      LOHTCPTM= 293.0      (E)      AHC      = 2040.      (E)      BHC      = 0.0000E+00(E)      LHCUPBND= 303.0      (E)
LHCLOBND= 293.0      (E)      SURFTENS= 0.2500E-01(E)      SFTNTEMP= 293.0      (E)      INTFTENS= 0.4000E-01(E)      INTFTTMP= 293.0      (E)
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 8.800      (E)
BVP      = 1395.      (E)      CVP      = -150.0      (E)      VFUPRND= 553.0      (E)      VPLWRBND= 393.0      (E)      AVCP      = 0.3123E+05
BVCP      = 885.9      CVCP      = -0.2805      OVCP      = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR=      HTCOMB3TN= -0.4190E+08(E)      HTOECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTGLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =
  
```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
UPO  CHEMNAME = UREA PEROXIDE          PATHCODE = SS
MOLEWT = 94.10      NBP =              NFP =
DENSITY = 800.0     DENSTEMP= 293.1    SHPS:ATE=S
CRHO =              LDUPREND=          LDLWREND=
AVIS =              BVIS =             LVUPREND=
LTHCNTMP=           ACON =             BCON =
LOHTCPPT=           LOHTCPTM=          AHC =
LHCLOBND=           SURFTENS=          SFTNTEMP=
SOLUBPNT= 51.00     SOLUBTMP= 293.1    A = -151.4
BVP =              CVP =              VFUPREND=
BVCP =             CVCP =             DVCP =
HTFUSIGN=          LHTVAPOR=          HTCO*STN=
HTREACTN=          HTPOLYMR=          LOFL* LIM=
TOXINHAL=          INHALCNC=          INHALTME=
LATETOX =          ABFLMTMP=          MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPEND=
INTFTTMP=
AVP = 0.6900
AVCP =
VHCLOBND=
HTSOLUTN= -0.1250E+07
BURNRATE=
UPTOX LIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S: SYSTEM OF UNITS

URA CHEMNAME = URANYL ACETATE PATHCODE = SS
 MOLEWT = 424.2 NBP = CRITTEMP= CRITPRES=
 DENSITY = 2890. DENSTEMP= 293.1 ARHO = BRHO =
 CRHO = LDUPREND= LDVISPNT= LOVISTMP=
 AVIS = BVIS = LVLWRBND= LOTHRCND=
 LTHCNTMP= ACON = LTCUPBND= LTCLOBND=
 LQHTCPPT= LOHTCPTM= SHC = LHCUPBND=
 LHCLOBND= SURFTENS= INTFTENS= INTFTTMP=
 SOLUBPNT= 8.400 SOLUBTMP= 290.1 B = AVP =
 EVP = CVP = VFLWRBND= AVCP =
 BVCP = CVCP = VHCUPBND= VHCLOBND=
 HTFUSION= LHTVAPOR= HTDECOMP= HTSOLUTN=
 HTREACTN= HTPOLYMR= UPFLWLIM= BURNRATE=
 TOXINHAL= 0.1000E-01 INHALCNC= LOTOXLM= 0.5000E-02 UPTOXLM= 0.1500E-01
 LAFETOX = ABFLMTMP= AIRFUEL = FLMETEMP=

MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
*****
URE      CHEMNAME = UREA      PATHCODE = SS
MOLEWT = 60.06      NBP      = 406.0
DENSITY = 1340.      DENSTEMP= 293.2
CRHO    =           LDUPREND=
AVIS    =           BVIS     =
LTHCNTMP=           ACON     =
LQHTCPPT=           LQHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT=           SOLUBTMP=
BVP      =           CVP      =
BVCP     =           CVCP     =
HTFUSION= 0.2420E+06  LHTVAPOR=
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LATETOX =           ABFLMTMP=
MOLFRAC =           MOLRATIO=

CRITTEMP=
BRHO     =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP       = 2.29D
AVCP      =
VHCLOBND=
HTSOLUTN= -0.2516E+06
BURNRATE=
UPTOXLIM=
FLMETEMP=
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
URS  CHEMNAME = URANYL SULFATE                PATHCODE = SS
MOLEWT = 420.2      NBP =                      NFP =          CRITTEMP=
DENSITY = 3280.      DENSTEMP= 293.1            SHPSTATE=S    ARHO =
CRHO =              LOUPRBN=                    LDLWRND=          LOVISIMP=
AVIS =              BVIS =                      LVUPRBN=          LQTHRCND=
LTHCNTMP=          ACON =                      BCON =           LTCLOBND=
LOHTCPPT=          LOHTCPTM=                    AHC =            LMCUPBND=
LHCLOBND=          SURFTENS=                    SFTNTMP=         INTFTTMP=
SOLUBRNT= 20.50     SOLUBTMP= 229.6            A = -180.1       AVP =
BVP =              CVP =                      VFUPRND=          AVCP =
BVCP =              CVCP =                      OVCP =           VMCLOBND=
HTFUSION=          LHTVAPOR=                    HTCO:STN=         HTSOLUTN=
HTREACTN=          HTPOLYMR=                    LOFL:LLIM=        BURNRATE=
TOXINHAL= 0.1100E-01 INHALCNC=                  INHALTME=         LOTOX LIM= 0.5000E-02 UPTOX LIM= 0.1500E-01
LAETOX =           ABFLMTMP=                    MOLRATIO=         FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
VAL  CHEMNAME = VALERALOEHYOE
      MOLECW = 86.13      NBP = 376.2      PATHCODE = A P C T U
      DENSITY = 811.0      OENSTEMP = 293.1      SHPSTATE=L      CRITTEMP = 554.0      CRITPRES = 0.3500E+07
      CRHO = 0.0000E+00      LOUPRND = 333.2      LCLWRBNO = 263.2      LOVISPT = 0.5000E-03(E) LQVISTMP = 293.0 (E)
      AVIS = -12.10 (E) BVIS = 1320. (E) LVUPRNO = 293.0 (E) LVLWRBNO = 278.0 (E) LQTHRCND = 0.1500 (E)
      LTHCNTMP = 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND = 293.0 (E) LTCLOBNO = 278.0 (E)
      LQHTCPPT = 2000. (E) LQHTCPTM = 293.0 (E) AHC = 2000. (E) EHC = 0.0000E+00(E) LHCUPBND = 293.0 (E)
      LHCLOBND = 278.0 (E) SURFTENS = 0.3000E-01(E) SFTNTIMP = 293.0 (E) INTFTENS = 0.3000E-01(E) INTFTIMP = 293.0 (E)
      SOLUBPNT = 1.350      SOLUBTMP = 293.2      A = 0      B = 0      AVP = 0      9.144
      BVP = 1316.      CVP = -58.16      VFUPRNO = 413.2      VPLWRBND = 277.2      AVCP = 0.1968E+05
      BVCP = 399.4      CVCP = -0.1507      PVCP = 0.0000E+00      VHCUPBND = 600.0      VHCLOBND = 250.0
      HTFUSION = 0.3894E+06      HTCOASTN = -0.3605E+08      HTDECOMP = 0      HTSOLUTN = 0
      HTPOLYMR = 0      LOFLWLIM = 0      UPFLWLIM = 0
      TOXINHAL = 0      INHALCNC = 0      INHALTME = 0      LOTOXLIM = 0.5000E-02      UPTOXLIM = 0.1500E-01
      LATETOX = 0      ABFLMTMP = 0      MOLRATIO = 0      AIRFUEL = 0
      MOLFRAC = 0
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
VAM  CHEMNAME = VINYL ACETATE
*****
MOLEWT = 86.09      NBP = 346.1      PATHCODE = A P O R S Z
DENSITY = 934.0      DENSTEMP= 293.2      SHPSSTATE=L
CRHO = 0.0000E+00    LDUPRBND= 313.2      LDWRSND= 273.2      LOVISPT= 0.4320E-03
AVIS = -10.97        BVIS = 944.0      LVUPRBND= 373.2      LQTHRCND= 0.1465
LTHCNTMP= 293.2      ACON = 0.2595      BCOR = -0.3838E-03  LTCUPBND= 373.2      LTCLOBND= 253.2
LQHTCPPT= 1758.      LQHTCPTM= 293.2      AHC = 1145.        BHC = 2.093        LHCUPEND= 323.2
LHCLOBND= 253.2      SURFTENS= 0.2395E-01  SFTNTMP= 293.2      INTFTENS= 0.3000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT= 2.300      SOLUBTMP= 293.2      A = 9.117
BVP = 1192.          CVP = -56.16      VFUPRBND= 363.2      VPLWRBND= 253.2      AVCP = 0.1516E+05
BVCP = 279.3         CVCP = -0.8792E-01  DVCP = -0.1675E-04  VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=            LHTVAPOR= 0.3793E+06  HTCOMBTN= -0.2269E+08 HTSOLUTN=
HTREACTN=            HTPOLYMR= -0.1022E+07  LOFLMLIM= 2.600      UPFLMLIM= 13.40      BURNRATE= 0.6333E-04
TOXINHAL= 10.00      INHALCNC=          INHALTME=          LOTOXLM= 0.5000E-03  UPTOXLM= 0.5000E-02
LATETOX =            ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

VCI	CHEMNAME = VINYLIDENECHLORIDE, INHIBITED	PATHCODE = A	X	Y	Z	
MOLECWT =	96.95	NBP =	304.8	NFP =	151.2	CRITTEMP=
DENSITY =	1210.	DENSTEMP=	293.2	SHPSSTATE=L		ARHO =
CRHO =	0.0000E+00	LDUPRBND=	303.2	LOLWRBND=	243.2	LQVISPAT=
AVIS =	-9.938	BVIS =	560.0	LVUPRBNO=	303.2	LVLWRBNO=
LTHCNTMP=		ACON =		BCON =		LTCUPBNO=
LQHTCPPT=	1256.	LQHTCPTM=	293.2	AHC =	28.64	BHC =
LHCLOBND=	253.2	SURFTENS=	0.2400E-01	SFTNTIEMP=	288.2	INTFTERS=
SOLUSPNT=	0.5000	SOLUBTMP=	293.2	A =		B =
BVP =	1104.	CVP =	-35.46	VFUPRBNO=	373.2	VPLWRBND=
BVCP =	180.5	(E) CVCP =	-0.1272	(E) DVCP =	0.3310E-04(E)	VHCUPBND=
HTFUSION=	0.6699E+05	LHTVAPOR=	0.3014E+06	HTCOMBTN=	-0.1130E+08	HTDECONP=
HTREACTN=		HTPOLYMR=	-0.7746E+06	LCFLVLIM=	7.300	UPFLWLIM=
TOXINHAL=	25.00	INHALCNC=		INHALTME=		LOTOXLIM=
LAFETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =
MOLFRAC =						FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
VCM      CHEMNAME = VINYL CHLORIDE
      MOLEWT = 62.50      NBP = 259.4      NFP = 119.4      PATHCOOE = A B C D E F G Z
      DENSITY = 969.0      DENSTEMP= 260.2      SHPSTATE=L      CRITTEMP= 431.6      CRITPRES= 0.5340E+07
      CRHO = 0.0000E+00      LOUPREND= 298.2      LOLPREND= 253.2      LQVISPNT= 0.2670E-03      LQVISTMP= 260.2      BRHO = -1.700
      AVIS = -9.918      BVIS = 440.0      LVUPRENO= 283.2      LVLWREND= 248.2      LQTHRCND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPEND=      LTCLOBND=
      LQHTCPPT= 1172.      LOHTCPTM= 259.2      AHC = -116.4      SHC = 5.024      LHCUPBND= 373.2
      LHCLOBND= 233.2      SURFTENS= 0.2088E-01      SFINTEMP= 263.2      INTFTENS= 0.3000E-01(E)      INTFTIMP= 293.0      (E)
      SOLUBPNT= 0.6000      SOLUBTMP= 293.2      A =      B =      AVP = 9.566
      BVP = 1183.      CVP = 0.0000E+00      VFUPRENO= 323.0      VPLWREND= 223.0      AVCP = 9630.
      BVCP = 174.8      CVCP = -0.9002E-01      OVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION= 0.7913E+05      LHTVAPOR= 0.3684E+06      HTCOYSTN= -0.1892E+08      HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR= -0.1698E+07      LOFLMLIM= 4.000      UPFLMLIM= 26.00      BURNRATE= 0.7167E-04
      TOXINHAL= 200.0      INHALCNC= 500.0      INHALTME= 300.0      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO= 0.8750      (E) AIRFUEL = 5.490      (E) FLMETEMP=
      MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

VFI  CHEMNAME = VINYL FLUORIDE, INHIBITED      PATHCODE = A  B  C  D  E  F  G  Z
MOLEWT = 46.10      NBP = 201.0      NFP = 112.0      CRITTEMP= 327.9      CRITPRES= 0.5240E+07
DENSITY = 707.0      OENSTEMP= 273.1      SHPS:ATE=L      ARHO = 1390.      BRHO = -2.500
CRHO = 0.0000E+00      LOUPRBND= 283.1      LDLPBND= 233.1      LQVISPNT= 0.1600E-03      LQVISTMP= 277.5
AVIS = -13.59      BVIS = 1347.      LVUPRBND= 283.1      LVLWRBND= 233.1      LQTHRCND= 0.4652E-01
LTHCNTMP= 273.1      ACON = 0.2498      BCON = -0.7443E-03      LTCUPBND= 273.1      LTCLOBNO= 173.1
LQHTCPT= 2026.      LQHTCPTM= 252.1      AHC = 1236.      BHC = 3.014      LHCUPSNO= 293.1
LHCLOBND= 253.1      SURFTENS= 0.5000E-02      SFTNTMP= 288.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.333
BVP = 869.8      CVP = -0.1500      VFUPRBND= 233.1      VPLWRBND= 198.1      AVCP = 0.1951E+05
BVCP = 97.13      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 320.0      VHCLOBND= 220.0
HTFUSION=      LHTVAPOR= 0.3620E+06      HTCOMBNTN= -0.1500E+08(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.600      UPFLMLIM= 21.70      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTCXLM=      UPTOXLM=
LAFETOX =      ABFLMTMP=      MOLRATIO= 0.9375      (E) AIRFUEL = 8.189      (E) FLMETEMP=
MOLFRAC =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

VME  CHEMNAME = VINYL METHYL ETHER. INHIBITED      PATHCODE = A  B  C  O  E  F  G  Z
MOLEWT = 58.10      NBP = 278.7      NFP = 151.0      CRITTEMP=      CRITPRES=
DENSITY = 777.0      OENSTEMP= 273.1      SHPSTATE=L      ARHO = 1132.      BRHO = -1.300
CRHO = 0.0000E+00      LOUPRBN= 318.1      DLWRBN= 258.1      LOVISPT= 0.2500E-03(E) LOVISTMP= 273.1
AVIS = -11.21 (E) BVIS = 800.0 (E) LVUPRBN= 283.1      LVLWRBN= 263.1      LQTHRCNO= 0.1163 (E)
LTHCNTMP= 273.1      ACCN = 0.1163 (E) BCON = 0.0000E+00(E) LTCUPBN= 283.1      LTCLOBNO= 263.1
LOHTCPPT= 1465. (E) LOHTCPTM= 273.1      AHC = 1465. (E) BHC = 0.0000E+00(E) LHCUPSNO= 283.1
LHCLOBNO= 263.1      SURFTENS= 0.1000E-01(E) SFTNTMP= 273.1      INTFTENS= 0.2500E-01(E) INTFTTMP= 273.1
SOLUBPNT= 2.000      SOLUBTMP= 293.1      A = 0.0000E+00(E) B = 0.0000E+00(E) AVP = 9.545
BVP = 1265.      CVP = -0.1500      VFUPRBN= 413.1      VPLWRBN= 273.1      AVCP = 139B. (E)
BVCP = 24B.7 (E) CVCP = -0.1154 (E) OVCP = 0.1637E-04(E) VHCUPBN= 550.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4200E+06(E) HTCOMSTN= -0.3300E+08(E) HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM= 2.600      UPFLWLIM= 39.00      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLNTMP=      MOLRATIO= 0.7500 (E) AIRFUEL = 9.451 (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

VNT  CHEMNAME = VINYLTOLENE
      MOLEWT = 118.2      NBP = 440.9      NFP = 196.2      CRITTEMP =
      DENSITY = 897.0      DENSTEMP = 293.2      SHPS ATE=L      CRITPRES =
      CRHO = 0.0000E+00      LDUPRHO = 333.2      LCLWBN = 273.2      LOVSP = 0.8370E 03      BRHO = -0.8000
      AVIS = -11.08      BVIS = 1170      LVUPRHO = 333.2      LCLWBN = 273.2      LOTMPCNO = 0.1500      IE
      LTHCNTMP = 293.0      (E) ACCN = 0.1500      (E) BCCN = 0.0000E+00      (E) LCLWBN = 293.0      (E) LCLWBN = 278.0      IE
      LQHTCPPT = 1717      LQHTCPPTM = 293.2      AMC = 611.9      BMC = 3.768      LMCUPBN = 323.2
      LHCLOBNO = 273.2      SUPFTENS = 0.3153E+01      SFTH EMP = 293.2      INTTEMP = 0.4500E 01      INTTEMP = 293.0      IE
      SOLUBPNT = 0.8900E-02      SOLUBTMP = 293.2      A = 1      B = 1      AVP = 10.92
      BVP = 2568      CVP = 0.4004E+01      VUPRBN = 393.2      PLWBN = 273.2      AVCP = 0.1460E+06      IE
      BVCP = 0.0000E+00      CVCP = 0.0000E+00      OLCP = 0.0000E+00      VUCUPBN = 350.0      (E) VHCLOBND = 300.0      IE
      HTFUSION = 0.3496E+06      LMTVAPOR = 0.3496E+06      HTCCBN = 0.4120E+08      MTEC = 11.00      MTSOLUN = 0.1000E+03
      HTREACTN = 0.5652E+06      LTPOLYMR = 0.5652E+06      LCPFLYMR = 0.8000      LCPFLYMR = 11.00      BURNRATE = 0.5000E-02
      TOXINHAL = 100.0      INHALCNC = 400.0      INHALTME = 300.0      LOTC = 0.5000E 03      UPTOXLM = 0.5000E-02
      LATETOX = 0.5000E-02      ABFLTMP = 0.5000E-02      LOTC = 0.5000E 03      UPTOXLM = 0.5000E-02
      MOLFRAC = 0.5000E-02      MOLRATIO = 0.5000E-02      LOTC = 0.5000E 03      UPTOXLM = 0.5000E-02
      FLWTEMP = 0.5000E-02
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

VOT  CHEMNAME = VANADIUM OXYTRICHLORIDE      PATHCODE = A  0
      MOLEWT = 173.3      NBP = 399.0      NFP = 196.0      CRITPRES=
      DENSITY = 1830.      OENSTMP= 293.1      SHPSRATE=L      BRHO = -1.800
      CRHO = 0.0000E+00      LOUPRND= 313.1      LOLWRBND= 273.1      LOVISFNT=
      AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCNO=
      LTHCNTMP=      ACON =      BCON =      LTCUPRND=      LTCLOBND=
      LOHTCPPT= 523.3      LOHTCPTM= 298      AHC = 523.3      LHCUPBND= 313.1
      LHCLOBND= 253.1      SURFTENS=      SFINTEMP=      INTFTTWP=
      SOLUBPNT=      SOLUSTMP=      A =      B =      AVP = 9.938
      BVP = 1968.      CVP = -0.1500      VFUPRND= 403.1      VPLWRBND= 288.1      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPRND=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCOASTN=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      LPFLMLIN=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN= 0.5000E-04      UPTOXLIM= 0.5000E-03
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PATHCODE = 11

MOLECWt =	181.9	NBP	=	NBP	=	CRITTEMP=	CRITPRES=
DENSITY =	3360.	DENSTEMP=	293.1	SHPSRATE=S	=	ARHO	BRHO
CRHO	=	LOUPRBND=		LOLWRBND=	LOVISPT=		LOVISTMP=
AVIS	=	BVIS	=	LVUPRBND=	LVLRBBD=		LOTHRCND=
LTHCNTMP=		ACON	=	BCON	LTICUPBBD=		LTCLCBND=
LQHTCPPT=		LQHTCPTM=		AHC	=	BHC	LHCUPBND=
LHCLCBND=		SURFTENS=		SFTNTEMP=	INTFTENS=		INTFTTMP=
SOLUBPNT=	0.7000E-01	SOLUBTMP=	293.1	A	=	0.7000E-01	AVP
BVP	=	CVP	=	VFUPRBND=	VPLARBBD=		AVCP
BVCP	=	CVCP	=	DVCP	=	VHCUPBBD=	VHCLCBND=
HTFUSION=		LHTVAPOR=		HTCOWSTN=	HTDECOMP=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIM=		BURNRATE=
TOXINHAL=	0.6200E-01	INHALCNC=		INHALTME=	LOTOXLIM=	0.5000E-04	UPTOXLIM=
LATETOX	=	ABFLMTMP=		MOLRATIO=	AIRFUEL	=	FLMETEMP=
MOLFRAC	=						

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

VTS  CHEVNAME = VINYLTRICHLOROSILANE      PATHCODE = A  0

MOLEWT = 161.5      NBP = 363.8      NFP = 178.0      CRITPRP=
DENSITY = 1260.      OENSTEMP= 293.1      SHPSIATE=L      ARHO = 1558.      BRHO = -1.000
CRHO = 0.0000E+00      LOUPRBD= 303.1      LOLWPSND= 273.1      LQVISPNT= 0.6300E-03      LQVISTMP= 298.1
AVIS = -10.05      (E) BVIS = 800.0      (E) LVUPRSNO= 303.1      LVLWRBTD= 288.1      LQTHRCND= 0.1279
LTHCNTMP= 303.1      ACON = 0.1279      BCON = 0.0000E+00      LTCUPBTD= 313.1      LTCLOBND= 293.1
LOHTCPPT= 837.4      LOHTCPTM= 303.1      AHC = 837.4      (E) BHC = 0.0000E+00(E)      LHCUPEND= 333.1
LHCLOBND= 293.1      SURFTENS= 0.2600E-01(E)      SFTNTMP= 293.1      INTFTES=S      INTFTTMP=
SOLUBPNT=          A =          VFUPRSNO= 373.1      B =          AVP = 9.841
BVP = 1759.      CVP = -0.1500      OVCP =          VPLWRBTD= 273.1      AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBTD=          VHCLOBND=
HTFUSION=          LHTVAPOR= 0.2000E+06      HTCO*STN= -0.1000E+08(E)      HTDECONP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLW*LM= 3.000      L*PFL*LM=          BURNRATE= 0.4843E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOX*LM= 0.5000E-04      UPTOX*LM= 0.5000E-03
LARETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

WCA  CHEMNAME = WAXES: CARNAUBA      PATHCODE = A  T  U
MOLEWT =      NBP =      DENSTMP= 298.2      NFP = 359.0 (E) CRITENP=
DENSITY = 900.0 (E) DENSTMP=      CRHO = 0.0000E+00(E) LDUPRBN= 440.0 (E) LDWFSND= 410.0 (E) LOVISPI.T= 0.4000E-02(E) LOVISIMP= 372.0 (E)
CRHO = 0.0000E+00(E) LDUPRBN= 440.0 (E) LDWFSND= 410.0 (E) LOVISPI.T= 0.4000E-02(E) LOVISIMP= 372.0 (E)
AVIS = -10.90 (E) BVIS = 2001. (E) LVUPRBN= 380.0 (E) LVLWRBND= 380.0 (E) LOTHRCND= 0.1500 (E)
LTHCNTMP= 370.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 380.0 (E) LTCLOEND= 360.0 (E)
LQHTCPT= 2000. (E) LQHTCPTM= 370.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 400.0 (E)
LHCLOEND= 360.0 (E) SURFTENS= 0.3000E-01(E) SFTNTMP= 370.0 (E) INTFTES= 0.4000E-01(E) INTFTMP= 373.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VFUPRBN=      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOEND=
HTFUSION=      LMTVAPOR=      HTCONSTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALIME=      LDTOXLIM=      UPTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
WPF  CHEMNAME = WAXES: PARAFFIN          PATHCODE = A  T  U
MOLECWT =          NBP =          NFP = 338.0 (E) CRITTEMP=          CRITPRES=
DENSITY = 780.0 (E) DENSTEMP= 293.2          SHPSSTATE=L          ARHO = 780.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LOUPRBND= 440.0 (E) LOLWRBND= 410.0 (E) LOVISPRIT=          LOVISTMP=
AVIS =          BVIS =          LVUPRBND=          LVLWRBND=          LQTHRCND= 0.1500 (E)
LTHCNTMP= 420.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 440.0 (E) LTCLOBND= 410.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 370.0 (E) AHC = 2000. (E) EHC = 0.0000E+00(E) LHCUPBND= 400.0 (E)
LHCLOBND= 350.0 (E) SURFTENS= 0.3060E-01          SFTNTMP= 327.2          INTFTENS= 0.4250E-01(E) INTFTMP= 327.2
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRBND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          OVCP =          VHCUPBND=          VHCLOBND=
HTFUSIGN= 0.1549E+06          LMTVAPOR=          HTCOMBIN= -0.4200E+08(E) HTOECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTIME=          LOTOXLIM= 0.5000E-02          UPTOXLIM= 0.1500E-01
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
XLM  CHEMNAME = M-XYLENE
      MOLECWT = 106.2      NBP = 405.1      NFP = 225.3      CRITTEMP= 617.D      CRITPRES= D.3540E+D7
      DENSITY = 864.D      OENSTEMP= 293.2      SHPSIATE=L      ARHO = 1099.      BRHO = -D.8DDC
      CRHO = D.DDDJE+DD      LOUPRNO= 313.2      LDWRSNO= 263.2      LOVISPT= 0.617DE-D3      LOVISTMP= 293.2
      AVIS = -11.07      BVIS = 108D.      LVLPBNO= 303.2      LVLWRBND= 263.2      LDTHRCNO= 0.13D3
      LTHCNTMP= 293.2      ACON = D.2666      BCON = -D.4652E-D3      LTCUPBND= 313.2      LTCLOBND= 273.2
      LQHTCPPT= 1687.      LQHTCPTM= 293.2      AHC = 459.9      BHC = 4.187      LHCUPBNO= 373.2
      LHCLOBND= 273.2      SURFTENS= D.286DE-D1      SFTNTMP= 293.2      INTFTENS= D.350DE-D1(E)      INTFTMP= 293.D (E
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.134
      BVP = 1462.      CVP = -58.06      VFUPBNO= 403.2      VPLWRBND= 283.2      AVCP = -0.111CE+05
      BVCP = 522.9      CVCP = -0.1926      DVCP = D.DDDDE+D0      VHCUPBND= 600.D      VHCLOBND= 25D.D
      HTFUSION=      LHTVAPOR= D.3429E+D6      HTCDWSTN= -D.4083E+D8      HTOECDMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.1DD      UPFLMLIM=      BURNRATE= 0.9667E-04
      TOXINHAL= 10D.0      INHALCNC= 3DD.0      INHALTME= 18DD.      LDTOXLIN= D.5DDDE-04      UPTOXLIM= D.5DDDE-03
      LATETOX =      ABFLMTMP=      MOLRATID=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
XLP  CHEMNAME = P-XYLENE
      MOLECW = 106.2  NBP = 411.5  NFP = 286.5  CRITTEMP = 616.2  CRITPRES = 0.3510E+07
      DENSITY = 861.0  OENSTEMP = 293.2  SHPSTATE=L  ARHC = 1096.  BRHO = -0.8000
      CRHO = 0.0000E+00  LOUPRBN = 323.2  LDLWRBN = 286.2  LQVISPT = 0.6440E-03  LOVISTMP = 293.2
      AVIS = -11.04  8VIS = 1080.  LVUPRBN = 323.2  LVLWRBN = 286.2  LOTHRCND = 0.1337
      LTHCNTMP = 293.2  ACON = 0.2424  8CON = -0.3722E-03  LTCUPBN = 313.2  LTCLOBNO = 273.2
      LQHTCPPT = 1746.  LOHTCPTM = 293.2  AHC = 518.5  EHC = 4.187  LHCUPBNO = 413.2
      LHCLOBND = 273.2  SURFTENS = 0.2830E-01  SFTNTEMP = 293.2  INTFTENS = 0.3780E-01  INTFTTMP = 293.2
      SOLUBPNT =  SOLUBTMP =  A =  B =  AVP = 9.116
      BVP = 1453.  CVP = -57.86  VFUPRBN = 403.2  VPLWRBN = 283.2  AVCP = -6950.
      BVCP = 499.1  CVCP = -0.1675  OVCP = 0.0000E+00  VHCUPBN = 600.0  VHCLOBNO = 250.0
      HTFUSION =  LHTVAPOR = 0.3391E+06  HTCOMSTN = -0.4084E+08  HTSOLUTN =
      HTREACTN =  HTPOLYMR =  LOFLMLIM = 1.100  UPFLMLIM = 6.600  BURNRATE = 0.9667E-04
      TOXINHAL = 100.0  INHALCNC = 300.0  INHALIME = 1800.  LOTOXLIM = 0.5000E-04  UPTOXLIM = 0.5000E-03
      LAETOX =  ABFLTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
      MOLFRAC =
*****
      PATHCODE = A T U

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/76 PAGE 433/A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

XYL CHEMNAME = XYLENOL

PATHCODE = A T U X Y

MOLEWT = 122.2	NBP = 45.0	NFP = 275.5	(E) CRITTEMP =	CRITPRES =
DENSITY = 1010.	DENSTEMP = 293.1	SHPSIATE = S	ARHO = 1248.	BRHO = -0.8000
CRHO = 0.0000E+00	LOUPREND = 373.1	LDLWPSND = 318.1	LOVISPI.T = 0.1550E-02	LOVISIMP = 353.1
AVIS = -13.35	BVIS = 2430.	LVUPPSNO = 393.1	LVLRBND = 343.1	LOTHRCNO = 0.1396 (E)
LTHCNTMP = 298.1	ACON = 0.1396	(E) BCON = 0.0000E+00(E)	LTCUPBND = 303.1	LTCLOBND = 288.1
LOHTCPPT = 1926	(E) LOHTCPTM = 293.1	AHC = 698.6	(E) BHC = 4.187	LHCUPBND = 303.1
LHCLOBND = 288.1	SURFTENS = 0.3000E-01(E)	SFINTEMP = 303.1	INTFTENS = 0.2500E-01(E)	INTFTIMP = 298.1
SOLUBPNT = 0.2000	SOLUBTMP = 298.1	A =	B =	AVP = 10.72
BVP = 2773.	CVP = -0.1500	VFUPPSND = 493.1	VPLWRBND = 373.1	AVCP =
BVCP =	CVCP =	OVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR = 0.4945E+06	HTCOMBSTN = -0.3700E+08(E)	HTOECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.400	UPFLMLIM =	BURNRATE =
TOXINHAL = 45.00	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LATEETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/79 PAGE435 /A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZAR	CHEMNAME = ZINC ARSENATE	PATHCODE = II	
MOLEWT =	866.0 (E) NBP =	NFP =	CRITPRES=
DENSITY =	3310. DENSTEMP=	288.1 SHPSSTATE=S	BRHO =
CRHO =	LDUPRBD=	LDLWEND=	LQVISTMP=
AVIS =	BVIS =	LVUPRBD=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VFUPRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOASTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	0.1300E-01(E) INHALCNC=	INHALTIME=	UPTOXLIM=
LATETOX =	ABFLWTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PATHCODE = II

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZBR CHEMNAME = ZINC BROMIDE

PATHCODE = SS

MOLEWT = 225.2	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 4220.	DENSTEMP= 293.1	SHSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBD=	LDLWRBD=	LOVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBD=	LVLWRBD=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBD=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBD=	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTMP=	INTFTTMP=
SOLUBPNT= 439.0	SOLUBTMP= 291.1	A = -1249.	B = 5.800	AVP =
BVP =	CVP =	VFUPRBD=	VPLWRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBD=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTSOLUTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LATEFOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZCA  CHEMNAME = ZIRCONIUM ACETATE          PATHCODE = A  P
MOLECW = 327.0      NBP =          NFP =          CRITTEMP=
DENSITY = 1370.     DENSTEMP= 293.1  SHPSTATE=L    ARHO =          BRHO =
CRHO =             LDUPREND=          LDLWRBND=     LOVISPAT=     LQVISTMP=
AVIS =             BVIS =             LVUPRND=       LVLWRBND=     LQTHRCND=
LTHCNTMP=          ACON =             BCON =         LTCUPBND=     LTCLOBND=
LOHTCPPT=          LOHTCPTM=          AHC =          EHC =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTMP=       INTFTENS=     INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =           B =          AVP =
BVP =             CVP =             VFUPRND=       VPLWRBND=     AVCP =
BVCP =            CVCP =             DVCP =         VHCUPBND=     VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN=      HTSOLUTN=     HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      UPFLMLIM=     BURNRATE=
TOXINHAL= 0.3430   INHALCNC=          INHALTME=      LOTOXLIM=     UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=      AIRFUEL =     FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZCL  CHEMNAME = ZINC CHLORIDE          PATHCODE = SS
MOLEWT = 136.3      NBP =      SHPSTATE=S      NFP = 556.0      CRITTEMP=
OENSITY = 2910.      OENSTEMP= 298.2      ARHO =      CRITPRES=
CRHO =      LDUPREND=      LOVISPNT=      LQVISTMP=
AVIS =      BVUPRSND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      AHC =      BHC =      LHCUPBND=
LHCLOBND=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      A = -857.2      B = 4.390      AVP =
BVP =      VFUPRSND=      VPLWRBND=      AVCP =
BVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      HTCONSTN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      LOFLMLIM=      UPFLMLIN=      BURNRATE=
TOXINHAL= 0.1645      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZCO  CHEMNAME = ZIRCONIUM OXYCHLORIDE          PATHCODE = SS
MOLECW = 322.3      NBP =                      NFP =
DENSITY = 1DDD.      (E) DENSTEMP = 293.1      SHPSTATE=S
CRHO =              LDUPRND=                    LDLWRBND=
AVIS =              BVIS =                      LVUPRND=
LTHCNTMP=           ACON =                      BCON =
LQHTCPPT=           LOHTCPTM=                   AHC =
LHCLOBND=           SURFTENS=                   SFTNTEMP=
SOLUBPNT=           SOLUBTMP=                   A =
BVP =              CVP =                      VFUPRND=
BVCP =             CVCP =                      DVCP =
HTFUSION=          LHTVAPOR=                   HTCONSTN=
HTREACTN=          HTPOLYMR=                   LOFLMLIM=
TOXINHAL= 0.350D    INHALCNC=                   INHALTME=
LATETOX =          ABFLMTMP=                   MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=
CRITTEMP=
ARHO =
LOVISPT=
LVLWRBND=
LTCUPBND=
EHC =
INTFTENS=
B =
VPLWRB'D=
VHCUPB'D=
HTDECONP=
UPFLMLIM=
LOTOXLIN=
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZCR  CHEMNAME = ZINC CHROMATE                PATHCODE = SS
      MOLEWT = 874.0 (E) NBP =                NFP =
      DENSITY = 3430. DENSTEMP= 293.1         SHPSSTATE=S
      CRHO =          LDUPRND=                LQVISPNT=
      AVIS =          BVIS =                  LVLWRBND=
      LTHCNTMP=       ACQN =                  LTCUPBND=
      LQHTCPPT=       LQHTCPTM=                BHC =
      LHCLOBND=       SURFTENS=                INTFTENS=
      SOLUBPNT= 0.1000 SOLUBTMP= 293.1         A =
      BVP =          CVP =                   VPLWRBND=
      BVCP =          CVCP =                  VHCUPBND=
      HTFUSION=       LHTVAPOR=                HTDECOMP=
      HTREACTN=       HTPOLYMR=                LPFLMLIM=
      TOXINHAL= 0.2600E-02(E) INHALCNC=        INHALTME=
      LATETOX =       ABFLWTMP=                LOTOXLIM=
      MOLFRAC =                               MOLRATIO=
      CRITPRES=
      BRHO =
      LQVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.5000E-03
      FLMETEMP=
      CRITTEMP=
      ARHO =
      LQVISPNT=
      LVLWRBND=
      LTCUPBND=
      BHC =
      INTFTENS=
      B =
      VPLWRBND=
      VHCUPBND=
      HTDECOMP=
      LPFLMLIM=
      LOTOXLIM= 0.5000E-03
      AIRFUEL =
      CRITPRES=
      BRHO =
      LQVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.5000E-02
      FLMETEMP=

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/75 PAGE442 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZCS CHEMNAME = ZIRCONIUM SULFATE

PATHCODE = SS

MOLEWT = 355.4	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 3000.	(E) DENSTEMP = 293.1	SHPSRATE = 5	ARHD =	BRHO =
CRHO =	LOUPRBD =	LOLWRBD =	LOVISPLT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBD =	LVLWRBD =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBD =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 78.60	SOLUBTMP = 298.1	A = -16.81	E = 0.3200	AVP =
BVP =	CVP =	VFUPRBD =	VPLWRBD =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBD =	VHCLOBND =
HTFUSIGN =	LHTVAPOR =	HTCOISTN =	HTDECONP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL = 0.3150	INHALCNC =	INHALTME =	LOTOXLIN = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/26 PAGE443 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZDP	CHEMNAME =	ZINC DIALKYLLOITHIOPHOSPHATE	PATHCODE =	A	X	Y
	MOLEWT =	548.0	(E) NBP	=		
	DENSITY =	1190.	(E) OENSTMP =	293.1		
	CRHO =		LDUPRND =			
	AVIS =		BVIS =			
	LTHCNTMP =		ACON =			
	LOHTCPPT =		LOHTCPPTM =			
	LHCLOBNO =		SURFTENS =			
	SOLUBPNT =		SOLUBTMP =			
	BVP =		CVP =			
	BVCP =		CVCP =			
	HTFUSION =		LHTVAPOR =			
	HTREACTN =		HTPOLYMR =			
	TOXINHAL =		INHALCNC =			
	LATETOX =		ABFLMTMP =			
	MOLFRAC =					
			NFP	=		
			SHPSTATE =	L		
			LOLWRND =			
			LVUPRND =			
			BCON	=		
			AHC	=		
			SFTNTMP =			
			A	=		
			VFUPRND =			
			DVCP	=		
			HTCONRTN =			
			LOFLMLIN =			
			INHALTME =			
			MOLRATIO =			
			CRITTEMP =			
			ARHO	=		
			LOVISPT =			
			LVLWRBD =			
			LTCUPBD =			
			BHC	=		
			INTFTENS =			
			E	=		
			VPLWRBD =			
			VHCUPBD =			
			HTSOLUTN =			
			BURNRATE =			
			UPTOXLIM =	0.5000E-03		0.5000E-02
			AIRFUEL =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZIR CHEMNAME = ZIRCONIUM NITRATE PATHCODE = SS

MOLEWT = 429.3	NBP =	NFP =	CRITEMP=	CRITPRES=
DENSITY = 1000. (E) DENSITY = 293.1	SMPSRATE=S	ARMO =	BRHO =	
CRHO =	LDLWRBND=	LQVISPNT=	LQVISIMP=	
AVIS =	LVUPRBN=	LVLWRBND=	LOTHRCND=	
LTHCNTMP=	ACON =	LTCUPBND=	LTCLOBND=	
LQHTCPPT=	LQHTCPTM=	EHC =	LHCUPBND=	
LHCLOBND=	SURFTENS=	INTFTENS=	INTFTIMP=	
SOLUBPNT=	SOLUBTMP=	A =	AVP =	
BVP =	CVP =	VFUPRBN=	AVCP =	
BVCP =	CVCP =	DVCP =	VHCLOBND=	
HTFUSION=	LHTVAPOR=	HTCCOBTN=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=	
TOXINHAL= 0.2600	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-02	
LAETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=	
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/79 PAGE446 A
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZNA CHEMNAME = ZINC ACETATE PATHCODE = SS

MOLEWT =	219.5	NBP =		CRITTEMP=		CRITPRES=
DENSITY =	1740.	DENSTEMP=	293.1	ARHO =		BRHO =
CRHO =		LOUPRBND=		LQVISPT=		LQVISPT=
AVIS =		BVIS =		LVLWRB'D=		LOTHRCNO=
LTHCNTMP=		ACON =		LTCUPB'D=		LTCLOBND=
LQHTCPPT=		LOHTCPTM=		BHC =		LHCUPBND=
LHCLOBND=		SURFTENS=		INTFTES=		INTFTTMP=
SOLUBPNT=	29.00	SOLUBTMP=	293.1	A =		AVP =
BVP =		CVP =		VPLWRB'D=		AVCP =
BVCP =		CVCP =		VHCUPB'D=		VHCLOBND=
HTFUSION=		LHTVAPOR=		HTOECONP=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFL'LIN=		BURNRATE=
TOXINHAL=		INHALCNC=		LOTOXLM=		UPTOXLM=
LAETOX =		ABFLMTMP=		AIRFUEL =		FLMETEMP=
MOLFRAC =						

0.5000E-03 0.5000E-02 -1000. (E

PATHCODE = SS

MOLECWT =	297.5	NBP =	NFP =	309.0	CRITTEMP=	CRITPRES=
DENSITY =	2070.	DENSTEMP=	293.1	SHPSIATE=S	ΔRHC =	BRHO =
CRHO =		LOUPREND=		LDLWRBND=	LOVISPLT=	LOVISLTP=
AVIS =		BVIS =		LVUPREND=	LVLRBND=	LQTHRCND=
LTHCNTMP=		ACON =		BCON =	LTCUPERD=	LTCLOBNO=
LQHTCPPT=		LQHTCPTM=		AHC =	BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	123.0	SOLUBTMP=	293.1	A =	B =	AVP =
BVP =		CVP =		VFUPREND=	VPLWRBND=	AVCP =
BVCP =		CVCP =		DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMBTN=	HTDECONP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=	LOTOXLIN=	UPTOXLIM=
LATETOX =		ABFLMTMP=		MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =						

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZPP CHEMNAME = ZINC PHOSPHIDE

PATHCODE = 11

MOLEWT = 258.1	NBP = 1373.	NFP = 693.0	CRITTEMP=	CRITPRES=
DENSITY = 4550.	DENSTEMP= 286.1	SHPSSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBNB=	LDLWPSND=	LOV:SPNT=	LOVISTMP=
AVIS =	BVIS =	LVUPRBNB=	LVLRBNB=	LQTHRCND=
LTHCNTMP=	ACON =	BLON =	LTCUPBNB=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBNB=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRBNB=	VPLWRBNB=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBNB=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBGN=	HTDECCMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

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*****
ZPS  CHEMNAME = ZINC PHENOLSULFONATE          PATHCODE = SS
MOLECWT = 555.8      NSP      = 393.D      NFP      =
DENSITY = 1000.      (E) DENSTEMP= 293.1      SHPSTATE=S
CRHO =
AVIS =
LTHCNTMP=
LQHCLOBND=
LHCLOBND=
SOLUBPNT= 63.00      SOLUBTMP= 293.1      A      =
BVP      =
BVCP      =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      =
AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

CRITTEMP=
ARHO =
LQVISPNT=
LVLWRBND=
LTCUPBND=
BHC      =
INTFTENS=
B      =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIN=
LOTOXLIM= 0.5000E-03
AIRFUEL =
MDLRATIO=
LOFLMLIM=
INHALTME=
HTCONSTN=
DVCN      =
VFCUPBND=
SFTNTENS=
AHC      =
BCON      =
LVUPRND=
LDLWRBND=
SHPSTATE=S
LDUPRND=
BVIS      =
ACON      =
LOHTCPTM=
SURFTENS=
CVCN      =
LHTVAPOR=
HTPOLYMR=
INHALCNC=
ABFLMTMP=

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

ZSF CHEMNAME = ZINC SULFATE

PATHCODE = SS

MOLEWT = 287.5	NBP =	NFP = 348.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 1960.	DENSTEMP = 293.1	SHPSATE = S	ARHO =	BRHO =
CRHO =	LOUPRBND =	LOLWRBND =	LOVISPAT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLRBND =	LOTHRCND =
LTHCNTMP =	ACCN =	BCCN =	LTCUPBND =	LTCLOBND =
LOHTCPPT =	LOHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 53.80	SOLUBTMP = 293.1	A = -125.0	B = 0.6100	AVP =
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSIGN =	LHTVAPOR =	HTCOB3TN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLWLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				0.5000E-02

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PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZSL CHEMNAME = ZINC SILICOFLUORIDE PATHCODE = SS

MOLEWT =	315.5	NBP =	333.0	(E) NFP =	CRITPRES=
DENSITY =	2100.	OENSTMP=	293.1	SHPSSTATE=S	BRHO =
CRHQ =		LOUPRNO=		LDLWRNO=	LOVISTMP=
AVIS =		BVIS =		LVUPRNO=	LOTHRCND=
LTHCNTMP=		ACON =		BCCN =	LTCLOBND=
LOHTCPPT=		LOHTCPTM=		AHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTEMP=	INTFTTMP=
SOLUBPNT=	54.20	SOLUBTMP=	293.1	A =	AVP =
BVP =		CVP =		VFUPRNO=	AVCP =
BVCP =		CVCP =		OVCP =	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMSTN=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	BURNRATE=
TOXINHAL=	0.1780	INHALCNC=		INHALTIME=	UPTOXLIM=
LAFETOX =		ABFLMTMP=		MOLRATIO=	FLMETEMP=
MOLFRAC =					

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